

ORDER NO. **ARP2193**

COMPACT DISC PLAYER

| Туре | | | Model | | | | |
|--------|---------|-----------|---------|-----------|---------|--|---------|
| Type | PD-6700 | PD-6700-S | PD-5700 | PD-5700-S | PD-4700 | Power Requirement. | Remarks |
| KU | 0 | - | 0 | - | 0 | AC 120V only | |
| KC | 0 | _ | 0 | | 0 | AC 120V only | |
| KUXJ | 0 | - | 0 | _ | 0 | AC 120V only | |
| KCXJ | 0 | - | 0 | _ | 0 | AC 120V only | |
| SD | - | - | 0 | - | 0 | AC110V, 120V - 127V, 220V, 240V (switchable) | |
| UPW | - | _ | 0 | _ | 0 | AC 230V - 240V | |
| MEMXJ | 0 | _ | 0 | _ | 0 | AC 220V - 230V | |
| MEWMXJ | _ | 0 | _ | 0 | _ | AC 220V - 230V | |
| UBXJ | 0 | - | 0 | _ | 0 | AC 230V - 240V | |

- This manual is applicable to the PD-6700/KU, KC, KUXJ, KCXJ, PD-5700/KU, KC. KUXJ, KCXJ, PD-4700/KU, KC, KUXJ and KCXJ types.
- As to the PD-6700/KC, KUXJ and KCXJ types, refer to pages 76.
- As to the PD-5700/KC, KUXJ and KCXJ types, refer to pages 76.
- As to the PD-4700/KC, KUXJ and KCXJ types, refer to pages 77.
- As to the other types, refer to applicable service manuals.
- Ce manuel pour le service comprend les explications de réglage en français.
- Este manual de servicio trata del método ajuste escrito en español.

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Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

1. SAFETY INFORMATION

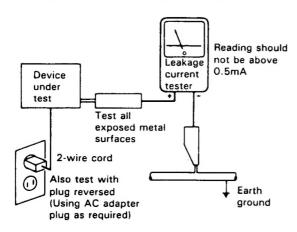
-(FOR USA MODEL ONLY)-

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a Δ on the schematics and on the parts list in this Service Manual.

The use of a substitute replacement component which dose not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

2. DISASSEMBLY

• REMOVING THE BONNET

1 Remove six screws to the bonnet.

② Remove the bonnet by pulling up it in the vertically direction
of arrow.

To easily remove the bonnet, pull outward on both sides of the bonnet then pull it diagonally toward the rear of the unit.

Note: If you pull up the rear base of the bonnet to remove it as in the conventional manner, the hooks shown in Fig. 2-1 may be caught and the hooks on the front panel side may be deformed.

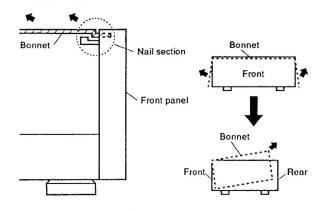


Fig. 2-1

• REMOVING THE TRAY

- ① Turn the POWER switch ON, and open the tray by the OPEN/CLOSE key. (Refer to the Note 1 when opening the tray by hand-operated.)
- ② Pull out the tray slowly by pushing the nail of the tray section from two holes ② and ③ of the clamper base (Fig. 2-2). (It is necessary to push the nail of the tray section at the front panel portion.)

Note 1:How to open the tray by hand-operated

• REMOVING THE FRONT PANEL

- ① Remove five screws (a) (Upper side is two screws and under side is three screws.) to the front panel.
- ② Remove a screw ③ to the Headphone board assembly (Fig. 2-2)
- (3) Disconnect two connectors CN351 and CN401 from the Mother board assembly (Fig. 2-2).
- 4 Remove the front panel and the Headphone board assembly together.
- CAUTION: When CN351 is connected and disconnected, be sure to disconnect the AC power cord from the AC outlet. If not, microcomputer (IC351) may be destroyed.

- ① Turn the gear B slowly in the direction of arrow by \bigcirc screwdriver with care not to damage the gear B (Fig. 2-2).
- ② Turn gear B until the tray starts to move in the direction of the OPEN position.
- 3 Move the tray to the OPEN position by hand.

Note: When attaching the tray, be sure attach it when the servo mechanism assembly is in the completely lowered position (when the rack has been moved all the way back). Otherwise, the upward and downward movements of the servo mechanism assembly may not synchronize with the movements of the tray. If the tray has been incorrectly attached, re-attach it as follows.

- ① Remove the tray following Step 2 of "REMOVING THE TRAY".
- 2 Move the rack all the way back by hand.
- ③ Install the tray.

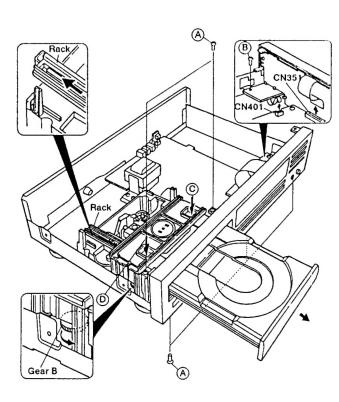


Fig. 2-2

REMOVING THE SERVO MECHANISM ASSEMBLY

- Remove the tray. (Refer to the "REMOVING THE TRAY".)
 Remove the four screws ⊕ and one screw ⊕ with the servo mechanism assembly lowered (to the tray open position)
- ③ To move the rack by hand, gear A and the gear section of the rack must be engaged at section ⑥ (see Fig. 2-3).
 Otherwise, the rack may not move. In this case, move gear B with a ⊖ screwdriver from the side and fit gear B and the gear section of the rack at the engaging section ⑥.

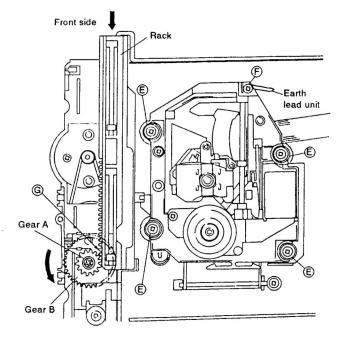


Fig. 2-3

- ④ Push the slide bushing at the front left with a thin implement such as a ⊖ screwdriver (Fig. 2-4) .
- (5) Pull up the rear side H of the servo mechanism assembly.
 (Arrow (1) in Fig. 2-4)

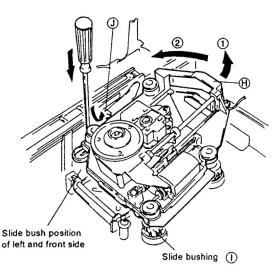


Fig. 2-4

• REMOVING THE SWING LEVER

- ① Move the rack manually so that section

 ® of the swing lever reaches the inclined part

 of a groove on the rack.

 (see Fig. 2-5)
- 2 Remove screw M which holds the shaft.
- ③ Slightly pull up the right side of the shaft (the side of screw
 ⑤) and pull the shaft outward in the direction of arrow ③ .

REMOVING THE SLIDE BUSHING

- ① Compress the slide bushing from three directions as shown in Fig. 2-5.
- ② Remove the bushing by turning it in the direction of the arrow

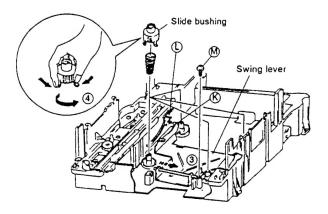
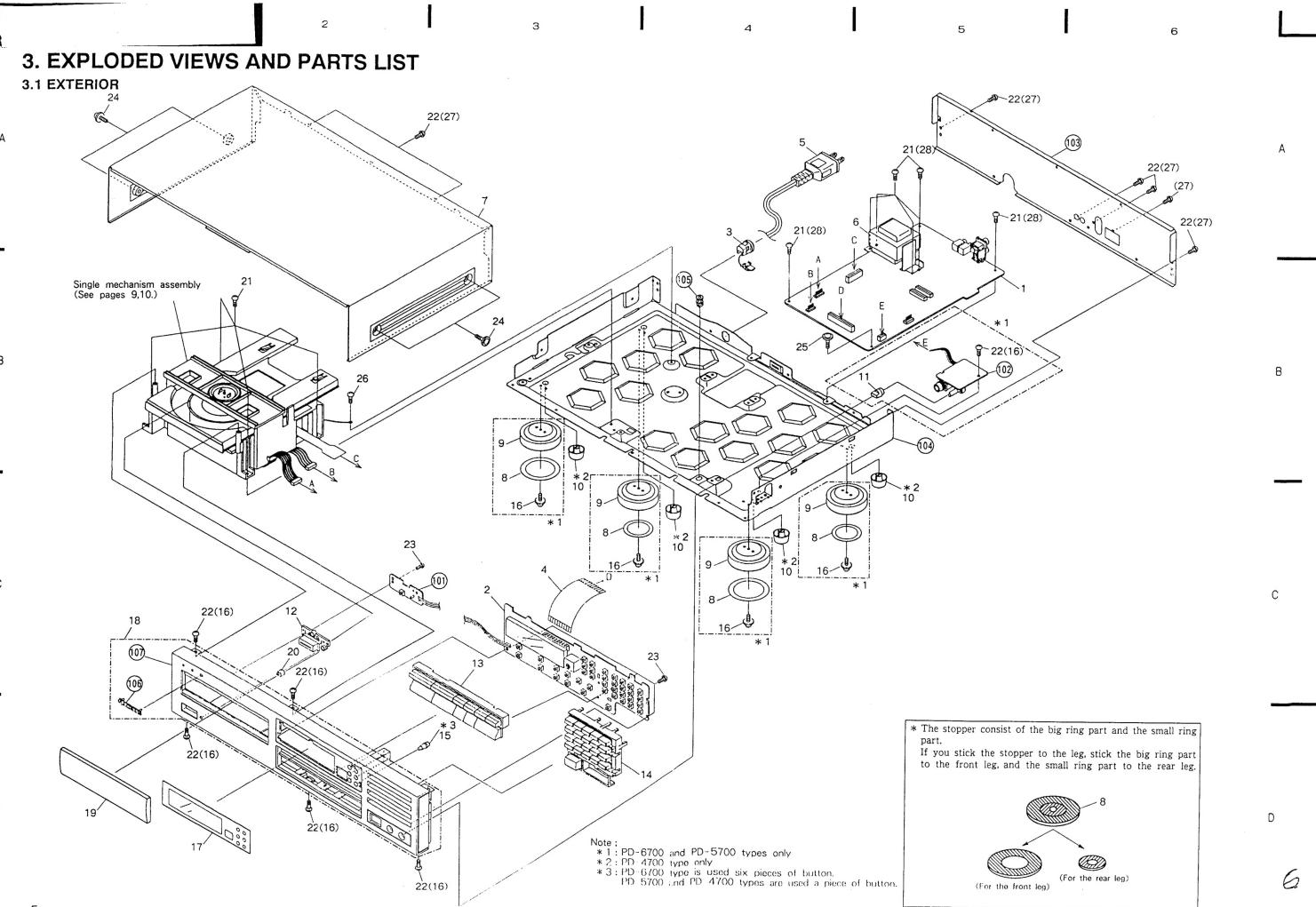


Fig. 2-5



NOTES:

- Parts without part number cannot be supplied.
- ullet The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Parts marked by "• are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

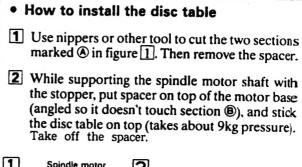
Parts List of Exterior Section

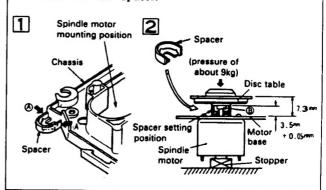
| Mark | No. | Description | Part No. | Mark No. | Description | Part No. |
|----------|-----|--|---------------------------------------|----------|---|---------------|
| \odot | 1 | Mother board assembly (PD-6700 type only) | PWM1429 | 15 | Time button B (PD-6700 and PD-5700 ty | PAC1549 |
| \odot | 1 | Mother board assembly (PD-5700 type only) | PWM1425 | 15 | Time button A (PD-4700 type only) | PAC1546 |
| \odot | 1 | Mother board assembly | PWM1421 | 16 | Screw | IBZ30P080FCC |
| | | (PD-4700 type only) | | | (PD-6700 type only) | |
| • | 2 | Function board assembly (PD-6700 type only) | PWZ2103 | 17 | Display window CK (PD-6700 type only) | PAM1470 |
| \odot | 2 | Function board assembly (PD-5700 type only) | PWZ2096 | 17 | Display window BK (PD-5700 type only) | PAM1463 |
| \odot | 2 | Function board assembly | PWZ2094 | 17 | Display window AK | PAM1462 |
| Ü | | (PD-4700 type only) | | | (PD-4700 type only) | |
| Δ | 3 | Strain relief (PD-6700 type only) | CM-22C | 18 | Function panel assembly (PD-6700 type only) | PEA1141 |
| Δ | 3 | Strain relief | CM-22 | 18 | Function panel assembly | PEA1140 |
| | | (PD-5700 and PD-4700 ty | /pes only) | | (PD-5700 type only) | |
| | 4 | Flexible cable (30P) | PDD1049 | 18 | Function panel assembly | PEA1139 |
| | | (PD-6700 and PD-5700 ty | pes only) | | (PD-4700 type only) | |
| | 4 | Flexible cable (28P) | PDD1070 | 19 | Tray name plate | PNW1900 |
| | | (PD-4700 type only) | | 20 | LED lens | PNW2019 |
| Δ | 5 | AC power cord | PDG1015 | 21 | Screw | BBZ30P060FMC |
| | _ | (PD-6700 type only) | PPC1040 | 22 | Screw | BBZ30P080FZK |
| Δ | 5 | AC power cord (PD-5700 and PD-4700 ty | PDG1040 pes only) | 23 | Screw | BBZ30P1 20FMC |
| | | D | DTT1107 | 24 | Screw | FBT40P080FZK |
| Δ | - 6 | Power transformer (AC120V) | PTT1187 | 25 | Screw | IBZ30P150FCC |
| | 7 | Bonnet | PYY1147 | 26 27 | Screw Screw | PDZ30P050FMC |
| | 8 | Stopper | PNM1070 | 21 | (PD-6700 type only) | BBZ30P080FCC |
| | Ū | (PD-6700 and PD-5700 ty | | 20 | | ID 500000 |
| | 9 | Insulator | VNK1095 | 28 | Screw | IBZ30P060FCC |
| | 9 | (PD-6700 and PD-5700 ty | | | (PD-6700 type only) | |
| | 10 | Leg assembly | PXA1201 | | | |
| | 10 | (PD-4700 type only) | IAAIZOI | 101 | Switch board assembly | |
| | 11 | Headphone knob | PAC1370 | 102 | Headphone board assembly | |
| | •• | (PD-6700 and PD-5700 ty | | 102 | (PD-6700 and PD-5700 ty | nes only) |
| | | (12 1111 | , , , , , , , , , , , , , , , , , , , | 103 | Rear base | pes only) |
| | 12 | Power button | PAC1540 | 104 | Under base | |
| | 13 | Play button B | PAC1542 | | | |
| | | (PD-6700 and PD-5700 ty | | 105 | PCB spacer | |
| | 13 | Play button A | PAC1541 | 106 | PIONEER badge | |
| | | (PD-4700 type only) | | 107 | Function panel C | |
| | 1.4 | Salast button | DAC1545 | 107 | (PD-6700 type only) | |
| | 14 | Select button (PD-6700 type only) | PAC1545 | 107 | Function panel B (PD-5700 type only) | |
| | 14 | Program button B | PAC1544 | | (FD-3/00 type only) | |
| | 14 | (PD-5700 type only) | 17101344 | 107 | Function panel A | |
| | 14 | Program button A | PAC1543 | 107 | (PD-4700 type only) | |
| | - ' | (PD-4700 type only) | | | (1.5 or type omy) | |

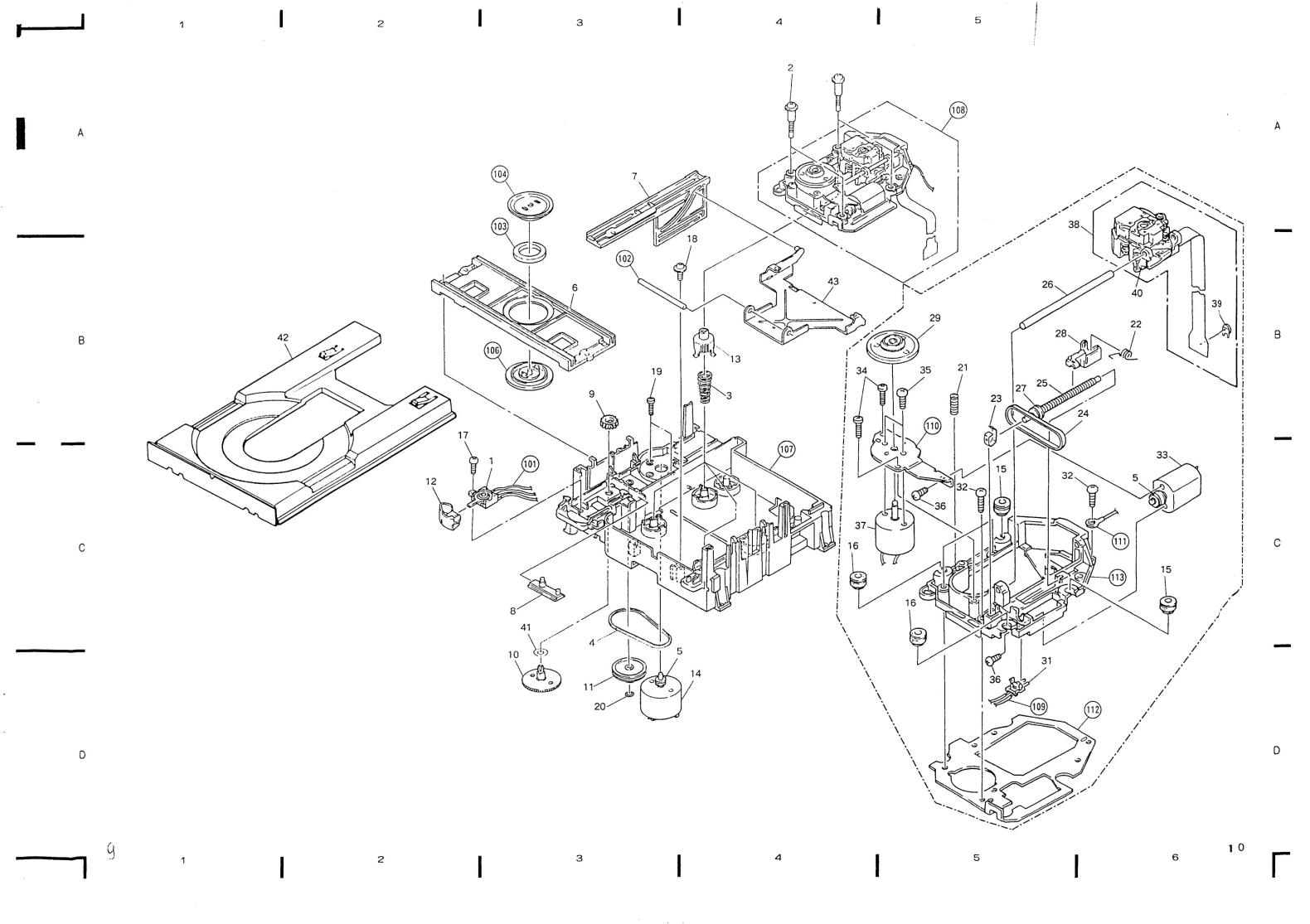
3.2 MECHANISM SECTION Parts List of Mechanism Section

| <u>Mark</u> | No. | Description | Part No. |
|-------------|----------------|---|-------------------------|
| | 1 | Lever switch (CLAMP) | DSK1003 |
| | 2 | Screw | PBA1042 |
| | 3 | Coil spring | PBH1085 |
| | 4 | Rubber belt | PEB1127 |
| | 5 | Motor pulley | PNW1634 |
| | 6 | Clamper base | PNW1673 |
| | 7 8 | Rack | PNW1674 |
| | 9 | Synchronized plate Gear A | PNW1675 PNW1676 |
| | 10 | Gear B | PNW1677 |
| | 11 | Gear Pulley | PNW1678 |
| | 12 | Sensor head | PNW1679 |
| | 13 | Slide bushing | PNW1680 |
| | 14 | D. C. motor (0.75W) (LOADING) | PXM1010 |
| | 15 | Floating rubber | PEB1014 |
| | 16 | Floating rubber | PEB1132 |
| | 17 | Screw | BPZ26P080FMC |
| | 18 | Screw | IPZ30P080FMC |
| | 19 | Screw | PMZ26P040FMC |
| | 20 | Washer | WT26D047D025 |
| | 21 | Earth spring | PBH1009 |
| | 22 | Drive spring | PBH1084 |
| | 23 | Plate spring | PBK1057 |
| | 24 | Belt | PEB1072 |
| | 25 | Drive screw | PLA1003 |
| | 26 | Guide bar | PLA1071 |
| | 27 | Pulley | PNW1066 |
| | 28 | Half nut | PNW1605 |
| | 29 | Disc table | PNW1608 |
| | 30 31 | Push switch (INSIDE) | DSCIOIA |
| | 32 | Screw | DSG1014 PBZ30P080FMC |
| | 33 | D. C. motor (1.7W) | PXM1013 |
| | 55 | (CARRIAGE) | 1 AMIOIS |
| | 34 | Screw | BPZ20P080FMC |
| | 35 | Screw | JFZ20P025FMC |
| | 36 | Screw | PMZ20P030FMC |
| | 37 | D. C. motor assembly (SPINDLE) (with oil) | PEA1028 |
| | 38 | Pickup assembly | PEA1030 |
| | 39 | Variable resistor (VR1) | PCP1008 |
| | 40 | Chip capacitor (C1001) | CKSYF105Z16 |
| | 41 | Washer | WA62D095D013 |
| | 42 43 | Tray | PNW1838 |
| | ر ب | Swing lever | PNB1296 |

| Mark | No. | Description Part No |). |
|------|-----|-----------------------------------|----|
| | 101 | 2mm pitch connector assembly (5P) | |
| | 102 | Shaft | |
| | 103 | Clamp magnet | |
| | 104 | Yoke | |
| | 105 | •••• | |
| | 106 | Clamper S | |
| | 107 | Loading base | |
| | 108 | Servo mechanism assembly | |
| | 109 | 2mm pitch connector assembly (6P) | |
| | 110 | Motor base | |
| | 111 | Earth lead unit (300V) | |
| | 112 | | |
| | 113 | Mechanism chassis | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |



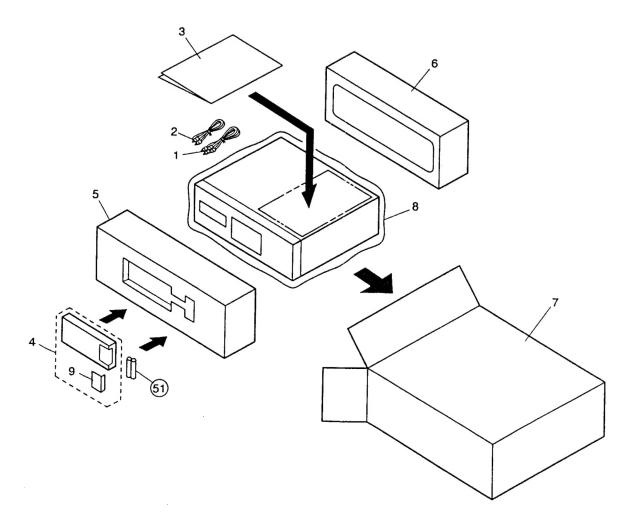




4. PACKING

Parts List

| Mark | No. | Description | Part No. | Mark No. | Description | Part No. |
|------|-----|---------------------------------------|----------|----------|-------------------------------------|----------------------|
| | 1 | Connection cord with mini plug | PDE-319 | 7 | CD packing case (PD-6700 type) | PHG1700 |
| | 2 | Connection cord with pin plug | PDE1109 | 7 | CD packing case (PD-5700 type) | PHG1699 |
| | 3 | Operating instructions (English) | PRB1138 | 7 | CD packing case (PD-4700 type) | PHG1698 |
| | 4 | Remote control unit (PD-6700 type) | PWW1060 | 8 | Mirror mat sheet Battery cover | Z23 - 007 PZN1001 |
| | 4 | Remote control unit (PD-5700 type) | PWW1061 | , | (PD- 6700 and PD- 570 | |
| | 5 | Protector F | PHA1116 | | | |
| | 6 | Protector R | PHA1117 | 51 | Dry cell battery(R03, AA | A) |



5. IC INFORMATION

■ PD2026A

D/A converter

Pin Function

| No. | Pin Name | 1/0 | Function | No. | Pin Name | 1/0 | Function | |
|-----|----------|-----|---|----------------|----------------|--|---|--|
| 1 | P/S | 1* | Switching the serial and parallel controls. | | | | Data latch signal input for attenuator when | |
| 2 | RZ | 0 | Digital zero detection output of R ch. | 20 | LATCH (EMI) | 1* | controlling the serial. | |
| 3 | TEST | J* | Test terminal (usually, use at "H") | (EMI) | | | Select the deemphasis filter mode when controlling the parallel. | |
| 4 | VDA | - | Analog power supply for R ch DA converter. | | | | Shift clock input for attenuator when | |
| 5 | RO | | Data positive direction output of R ch. | 21 SHIFT (EM2) | | | controlling the serial. | |
| 6 | RO | 0 | Data reverse direction output of R ch. | | , | Select the deemphasis filter mode when controlling the parallel. | | |
| 7 | GNDA | - | Analog ground for R ch DA converter. | | 1 | EMI L L H H | | |
| 8 | GNDA | - | Analog ground for L ch DA converter. | | | | EM2 L H L H | |
| 9 | ĩ.Ō | 0 | Data reverse output of L ch. | | | | Mode 44.1 OFF 48 32 (kHz) | |
| 10 | LO | U | Data positive output of L ch. | 22 ATT (MUTE) | | ı | Data input for attenuator when controlling the serial. Becomes muting terminal when controlling the parallel. Mute ON at "H". | |
| 11 | V/DA | - | Analog power supply for L ch DA converter. | | (MUTE) | | | |
| 12 | GNDX | - | Ground of oscillating section. | | | CE I* | System clock control. | |
| 13 | XI | I | Crystal oscillating circuit input. | 23 | OSCE | | Stop the system clock at "L". | |
| 14 | ХО | 0 | Crystal oscillating circuit output. | | | | Reset terminal. Reset the Σ Δ circuit at "L" | |
| 15 | V'DX | - | Power supply of oscillating section. | 24 | RESET | 1* | and attenuate data becomes 00 (HEX). | |
| 16 | GND | - | Ground of logic section. | 25 | DATA | | Data input. | |
| 17 | С | J* | Clock selection. "L": 256fs, "H": 384fs | 26 | ВСК | 1 | Bit clock input. | |
| 18 | L.Z | 0 | Digital zero detection output of L ch. | 27 | LRCK | Ì | LR clock input (L ch data at "H"). | |
| 19 | MCK | ١ | System clock output. | 28 | VDD | _ | Power supply of the logic section. | |

I*: Input terminals with pull-up resistor.

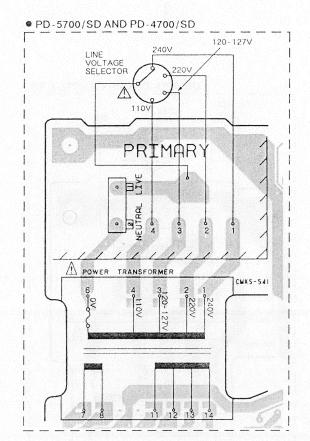
| .C.B. pattern diagram Indication | Corresponding part symbol | Part name |
|-------------------------------------|---------------------------------|---|
| | | Transistor |
| | ο Ε <u>ο ό</u>) ο Ε <u>ο ό</u> | |
| D S G | | FET |
| 014 | | |
| | <u> </u> | Diode |
| al | | |
| aţ | · (4-0 | Zenner dlode |
| \rightleftharpoons | , , | 2011101 01000 |
| 4← | ~ <u>_</u> 6€~~ | LED |
| | ○ | Varactor |
| ı⊡ı | 50 | Tact switch |
| 0 | 0 0 | racy switch |
| ~ | ·m. | Inductor |
| | , , , | ,, add. |
| 0 | ~~~ | Coll |
| | | Transformer |
| | | Filter |
| E D | | |
| · _ · | | Ceramic capacito |
| $\subset \supset$ | | Mylar capacitor |
| ১ () | | Styrol capacitor |
| \$ () | <u>0−-</u> 0 | Electrolytic capacit (Non polarized) |
| | | Electrolytic capacit (Noiseless) |
| € | <u>~ †</u> + | Electrolytic capacit (Polarized) |
| Ę | | Electrolytic capacit (Polarized) |
| | o— }—∘ | Power capacitor |
| D | ملب، | Semi-fixed resisto |
| | | Resistor array |
| | | |
| ~ | ~-W~ | Resistor |
| 0 | | |
| -OF | | Resonator |
| | 00000 | Thermistor |

- 2. The parts which have been mounted on the load can be replaced with those shown with the corresponding wiring symbols listed in the above Table.

 3. The capacitor terminal marked with shows negative terminal.

 4. The dlode marked with shows cathode side.

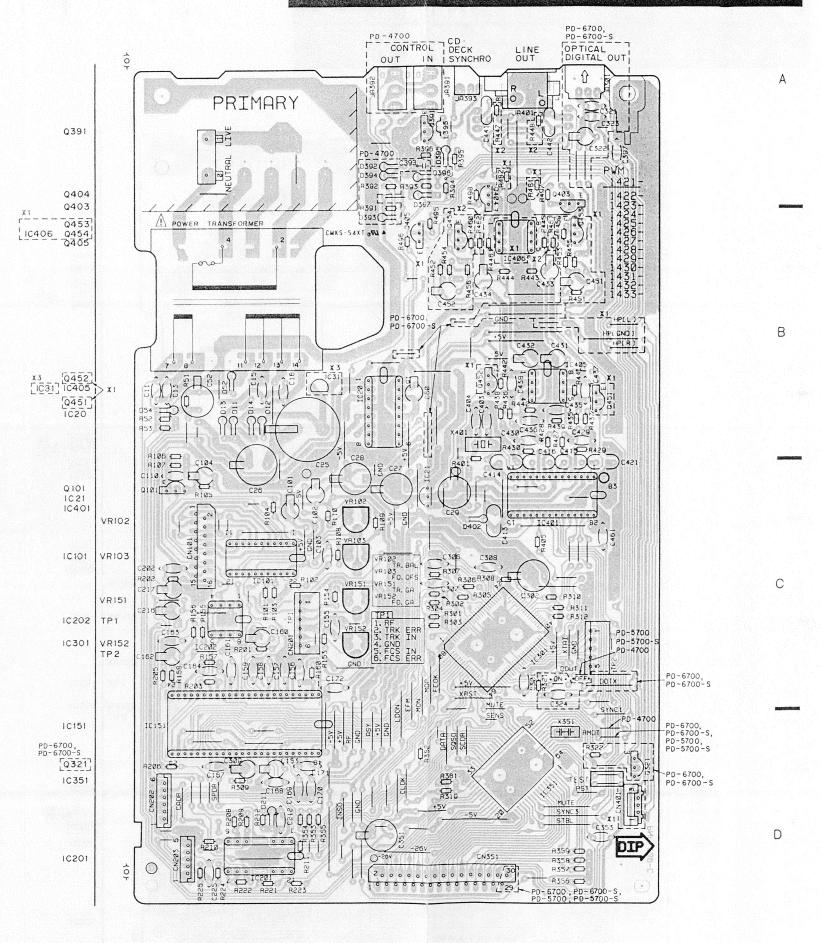
 5. The transistor terminal marked with shows emitter.



* 1 : EXCEPT PD-4700/SD

| * 2 | | R447,R448,R461,R462 |
|-----|------------|---------------------|
| | PD-4700/SD | SHORT (JUMPER) |
| | OTHERS | USED |

| * 3 | | IC31 |
|-----|--------------------------|-------------------|
| | PD-5700/SD PD-4700/SD | SHORT (JUMPER) |
| | OTHERS | USED |



2.5 P.C. BOARD PATTERN

● PD-5700/SD AND PD-4700/SD 120-127V PRIMARY A POWER TRANSFORMER

* 1: EXCEPT PD-4700/SD

| 1 | | R447,R448,R461,R462 |
|---|------------|---------------------|
| 1 | PD-4700/SD | SHORT (JUMPER) |
| | OTHERS | USED |

| IC31 | | 8 |
|-------------------|--------------------------|---|
| SHORT (JUMPER) | PD-5700/SD PD-4700/SD | |
| USED | OTHERS | |

This P. C. B. connection diagram is viewed from the foil side.

13

200000000000000000

200000 PD-6700, PD-6700, PD-6700-S,

PD-6700/MEMXJ,UBXJ,PD-6700-S/MEWMXJ

LINE

PD-5700/MEWMXJ,PD-4700/MEMXJ,UBXJ,SD,UPW

PD-6700, PD-6700-5 OPTICAL DIGITAL OUT

HPL GND 1

(R511 (R512

R559 ← R558 ← R558 ← R557 ← C

PD-5700/MEMXJ,UBXJ,SD,UPW

PD-4700 CONTROL DECK OUT IN SYNCHRO

CMKS-SAXT

PRIMARY

A POWER TRANSFORMER

3

0

0391

0404 0403

x3 [0452] [1031] [0405] x1 [0451] IC20

> Q101 1C21 10401

10101

10202 10301

10151

0321 10351

10201

VRIOZ

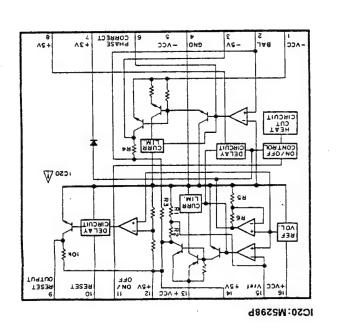
VRIO3

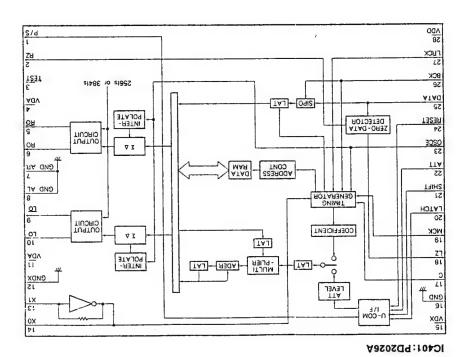
VRISI

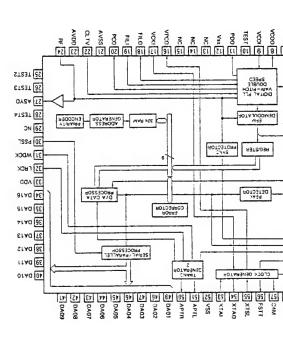
TP1

VR152 TP2

0453 1C406 0454 0405







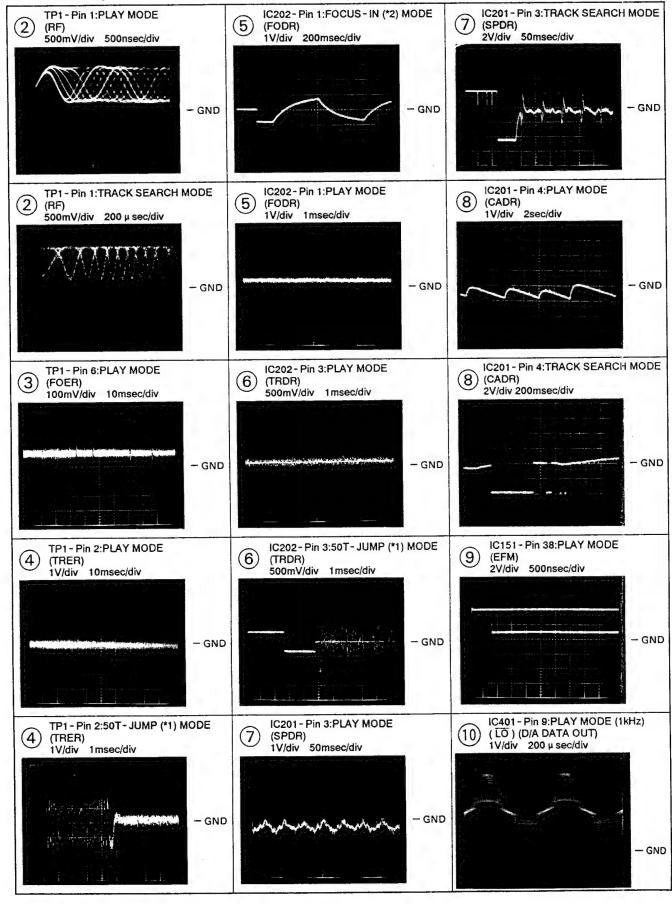
6. SCHEMATIC DIAGRAM

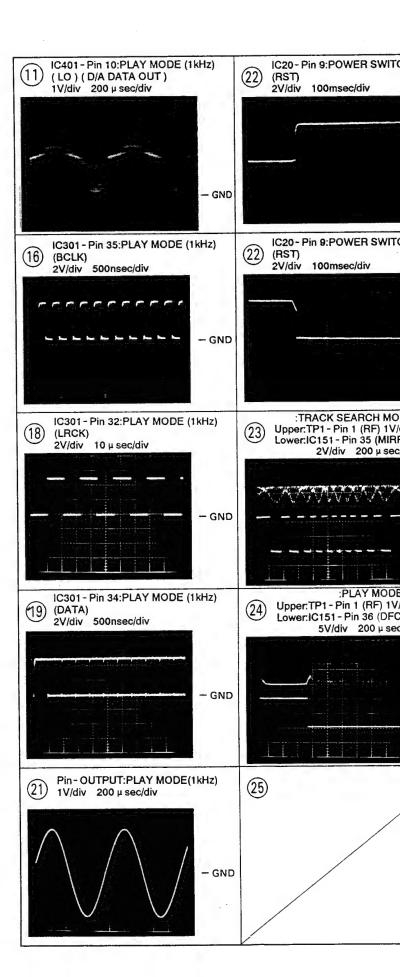
6.1 Wave Forms

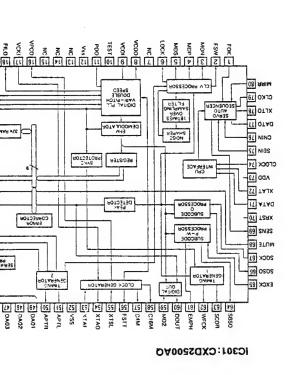
Note: The encircled numbers denote measuring in the schematic diagram.

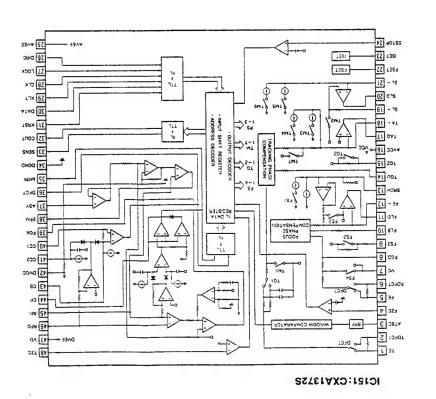
*1 50T-JUMP:After switching to the pause mode, press the manual search key.

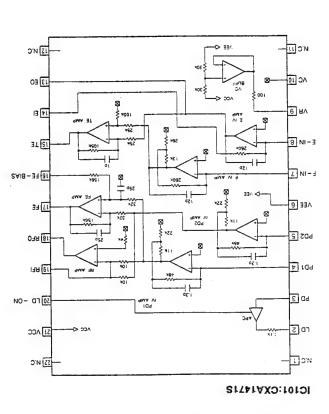
*2 FOCUS-IN:Press the key without loading a disc.



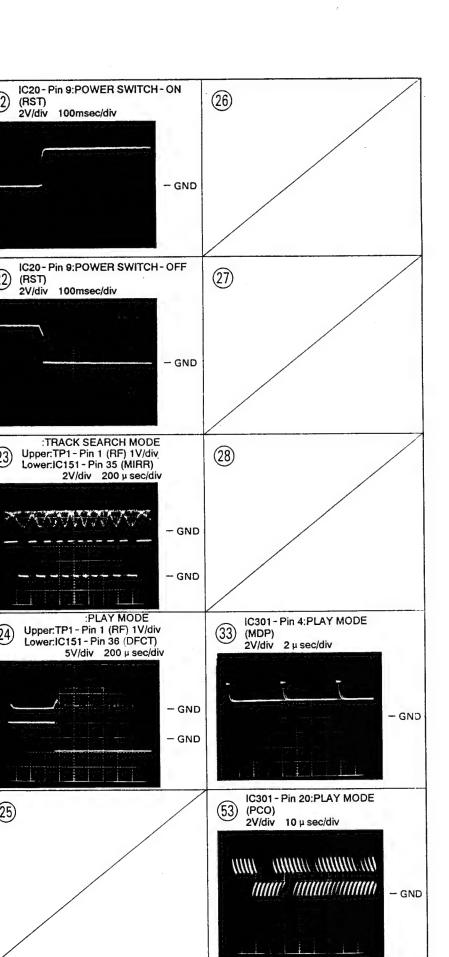








IC BLOCK DIAGRAMS



indicated in Ω , 1/4W, 1/6W and 1/8W, \pm 5% tolerance unless otherwise noted k;k $\,\Omega\,$, M;M Ω , (F); \pm 1%, (G); \pm 2%, (K); \pm 10%, (M); \pm 20% tolerance. 2. CAPACITORS: Indicated in capacity(μ F)/voltage(V)unless otherwise noted p;pF. Indication without voltage is 50V except electrolytic capacitor. 3. VOLTAGE, CURRENT: ;DC voltage(V)at play state. ;DC current at play state. Value in()is DC current at stop state. 4. OTHERS: → ;Signal route. (;Adjusting point. The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation. This is the basic schematic diagram, but the actual circuit may vary due to improvements in design. 5. SWITCHES: (The underlined indicates the switch position) SWITCH BOARD ASSEMBLY S801 : POWER ON - OFF FUNCTION BOARD ASSEMBLY **FUNCTION BOARD ASSEMBLY** (PD - 6700 TYPE) (PD-5700 AND PD4700 TYPES) S701: PEAK SEARCH S701 : PEAK SEARCH \$702 : CHECK S702 : CHECK S703 : CLEAR S703 : CLEAR S704 : PGM S704: PGM \$705 : EDIT \$705 : EDIT S706: RANDOM PLAY S706: RANDOM PLAY S707: ▷▷ MANUAL SEARCH S707: ▷▷ MANUAL SEARCH S709 : STOP(□) \$709: STOP([]) S710: PLAY(▷) S711: DN TRACK SEARCH S711: DD TRACK SEARCH \$713 : PAUSE([[]) S713 : PAUSE([][]) S714:17 S724 : OPEN/CLOSE(\(\Delta \) S715:18 S725: HI-LITE SCAN \$716:19 S726: REPEAT \$717:20 S727 : TIME S718:14 S728: 10 TRACK NUMBER S719:15 S729:9 S720:16 S730:8 S721:11 S731:7 S732: >20 S722:12 S723:13 _ S733:6 TRACK NUMBER

S734:5

S735:4

\$737:3

\$738:2

S739:1 -

S736:+10

S724: OPEN/CLOSE(&)

TRACK NUMBER

S725 : HI - LITE SCAN

S726: REPEAT

S727 : TIME

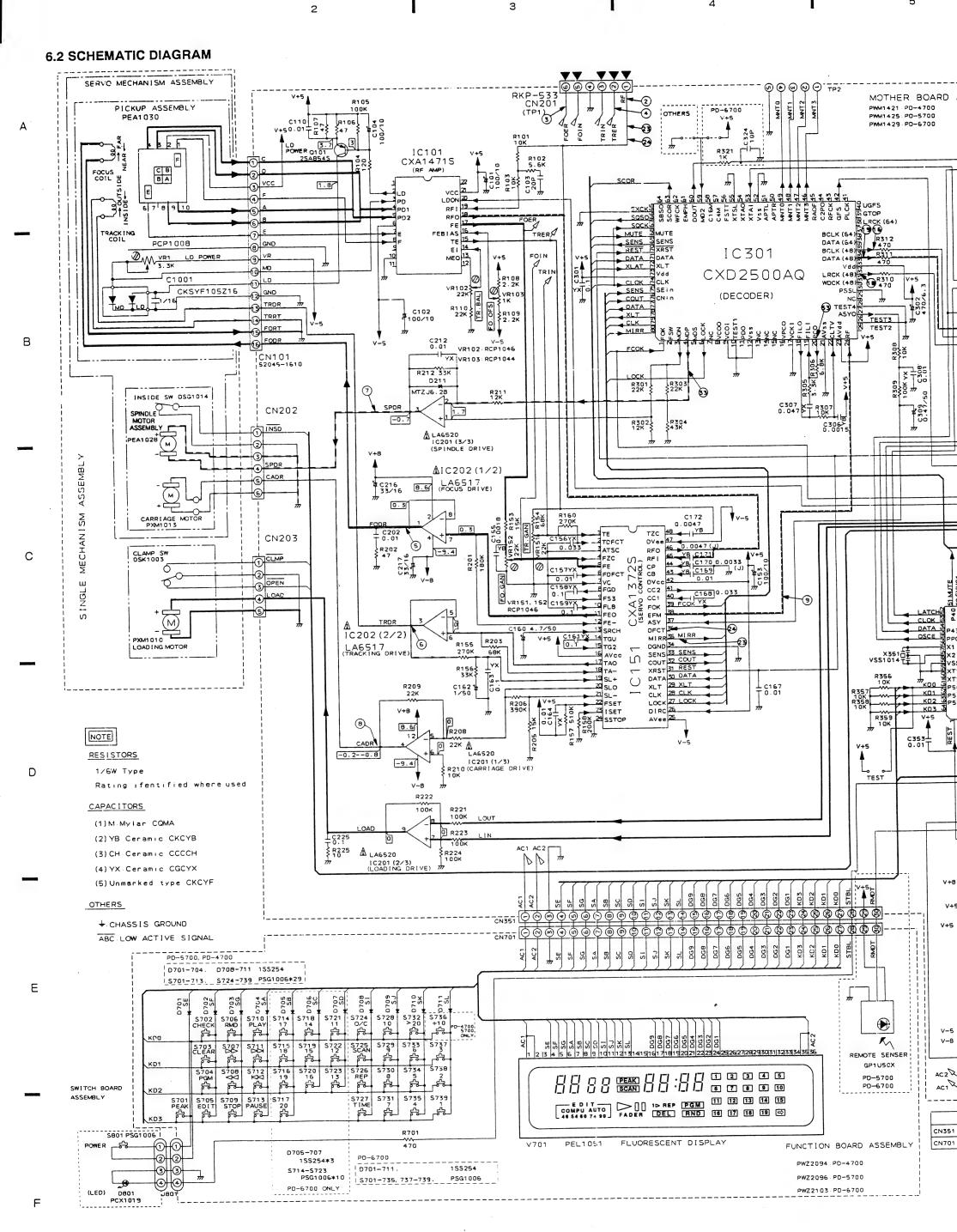
S728:10

\$729:9

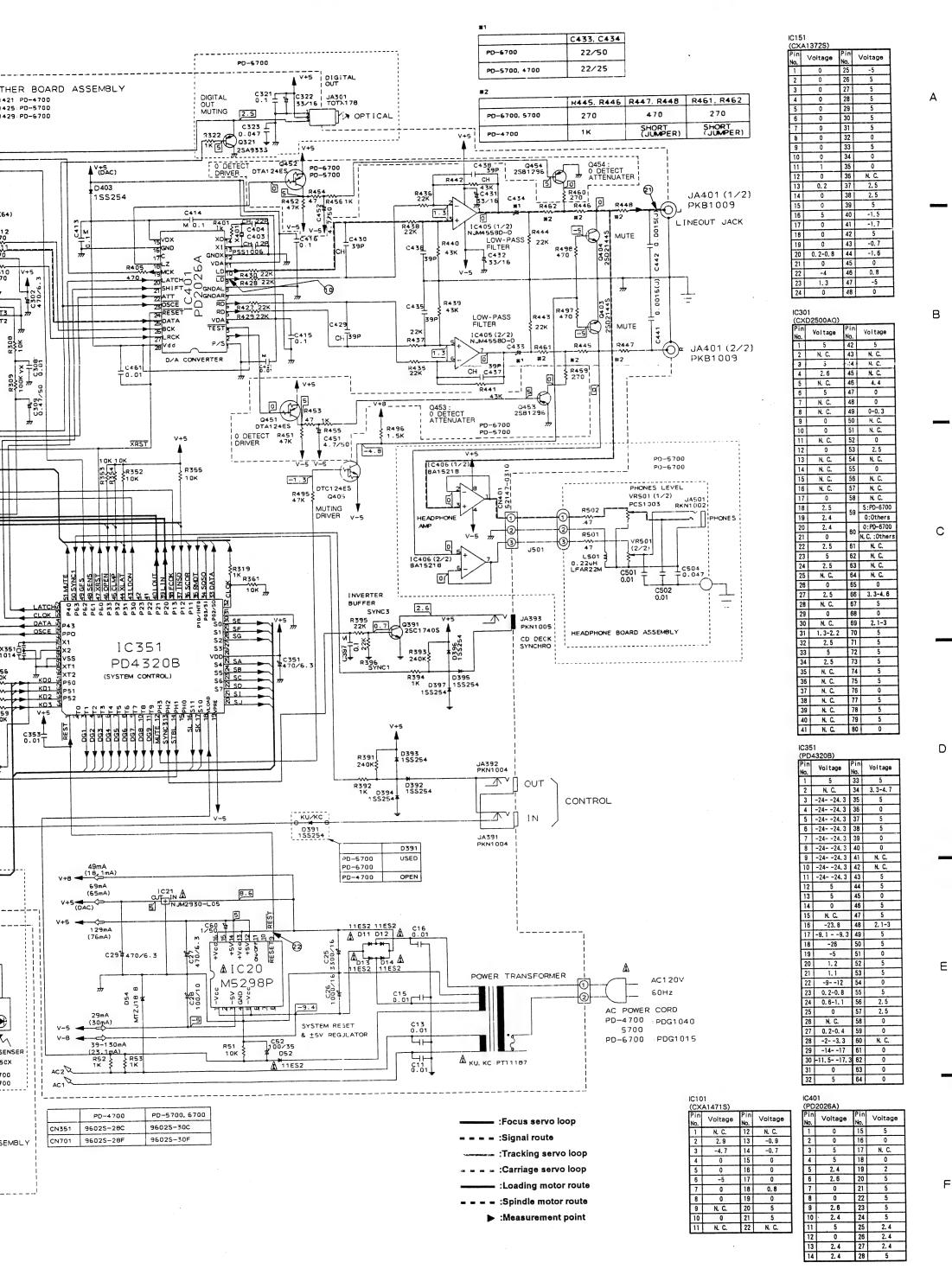
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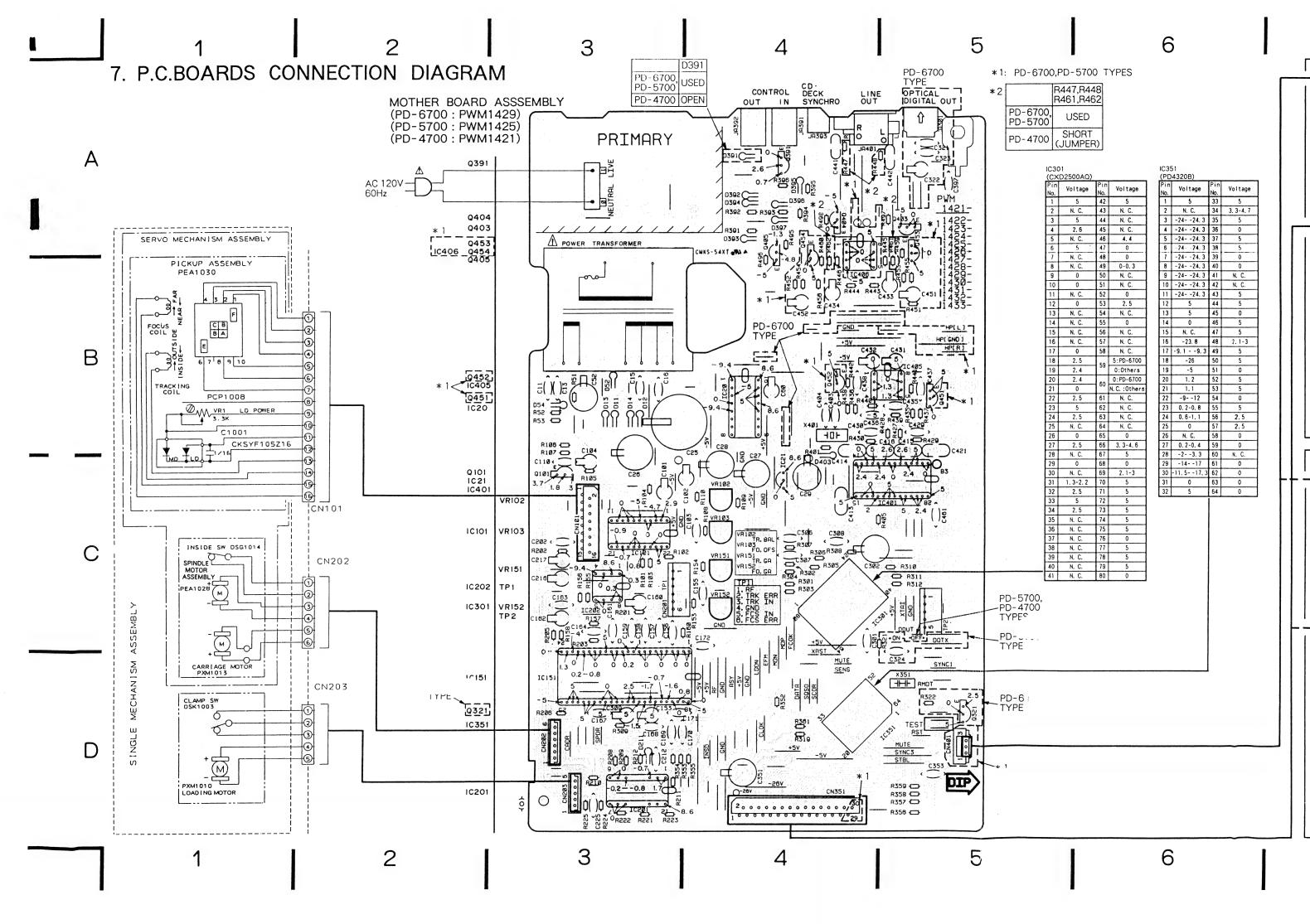
\$733:6 \$734:5

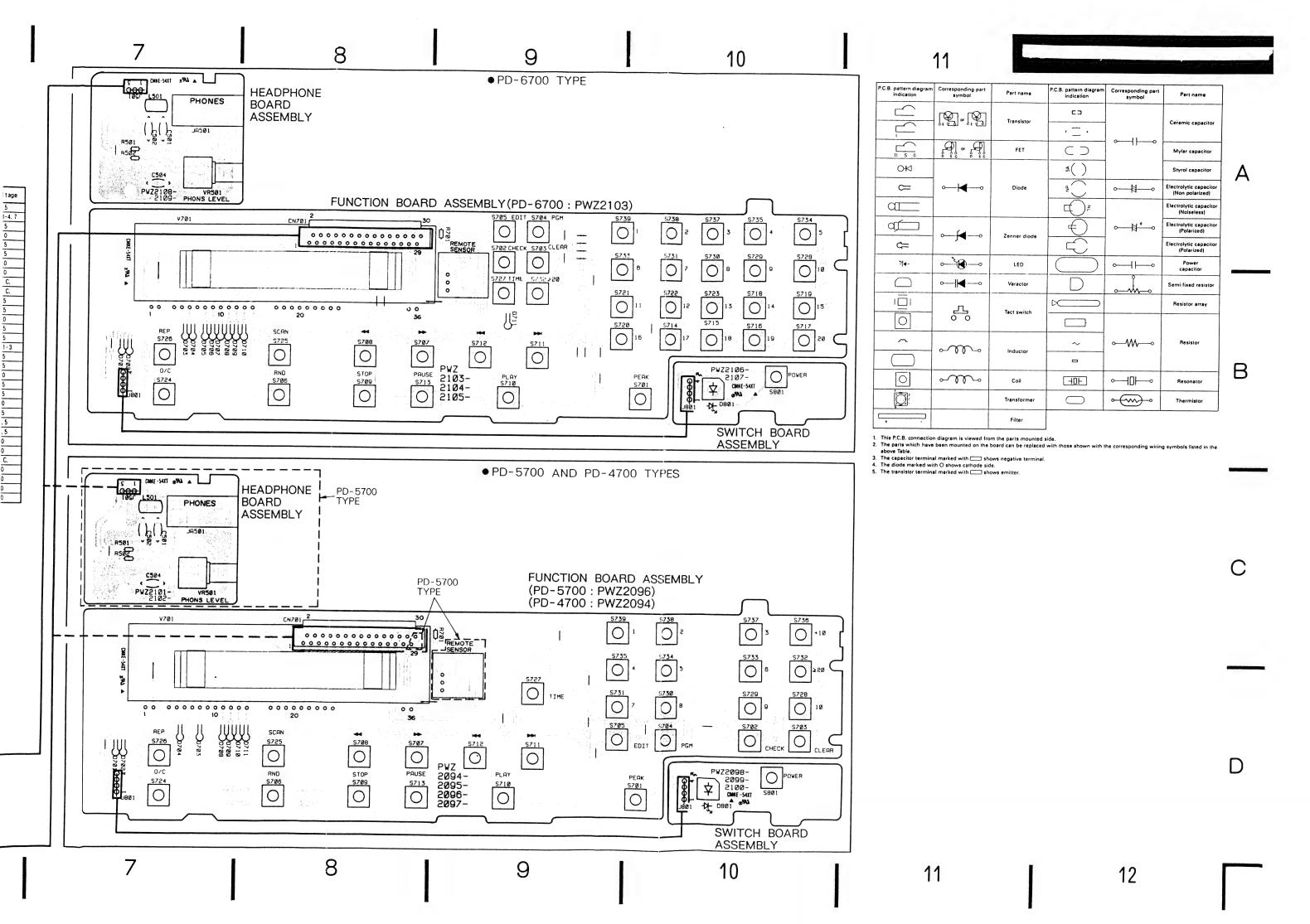
\$735:4 \$737:3 \$738:2 \$739:1

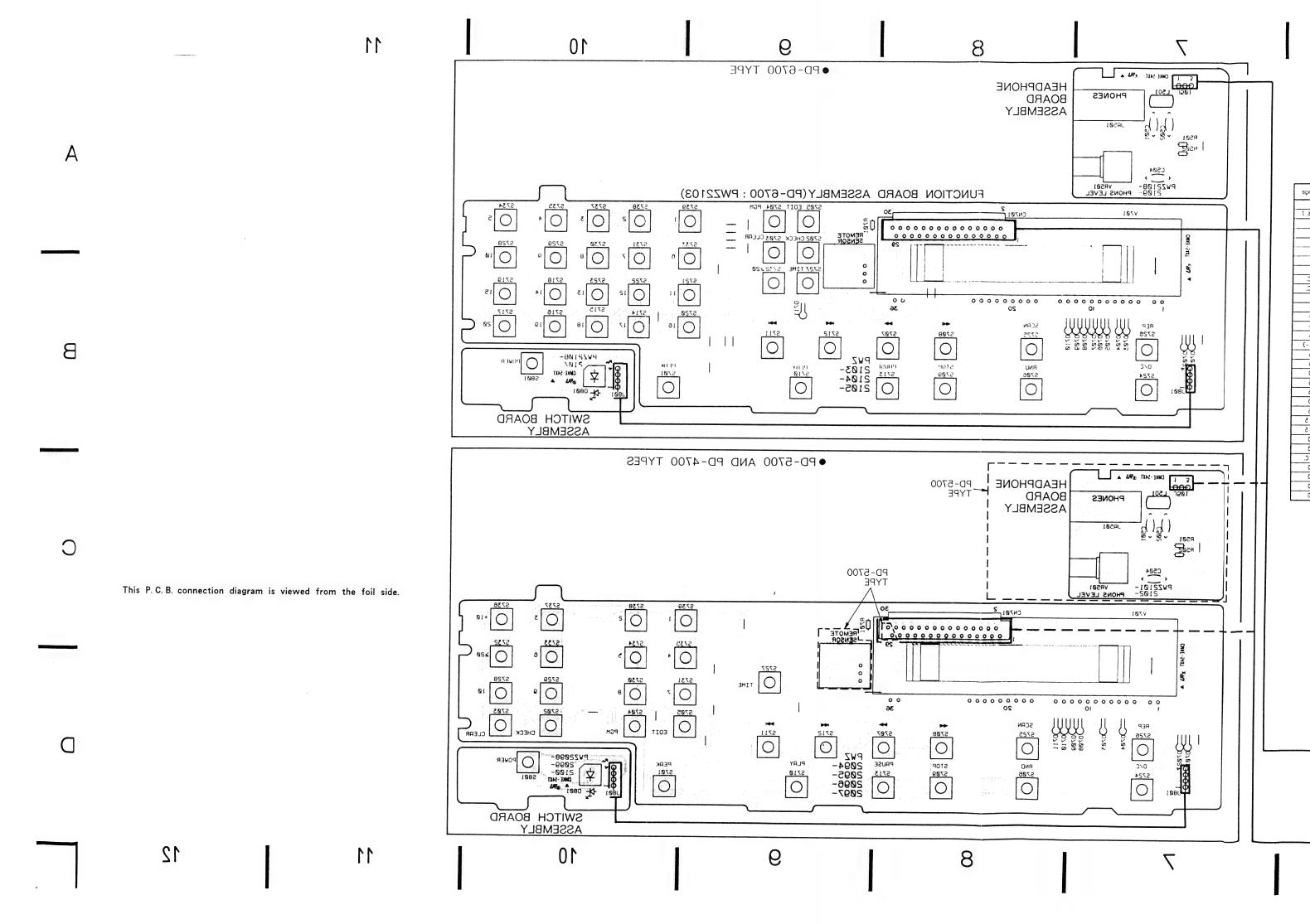


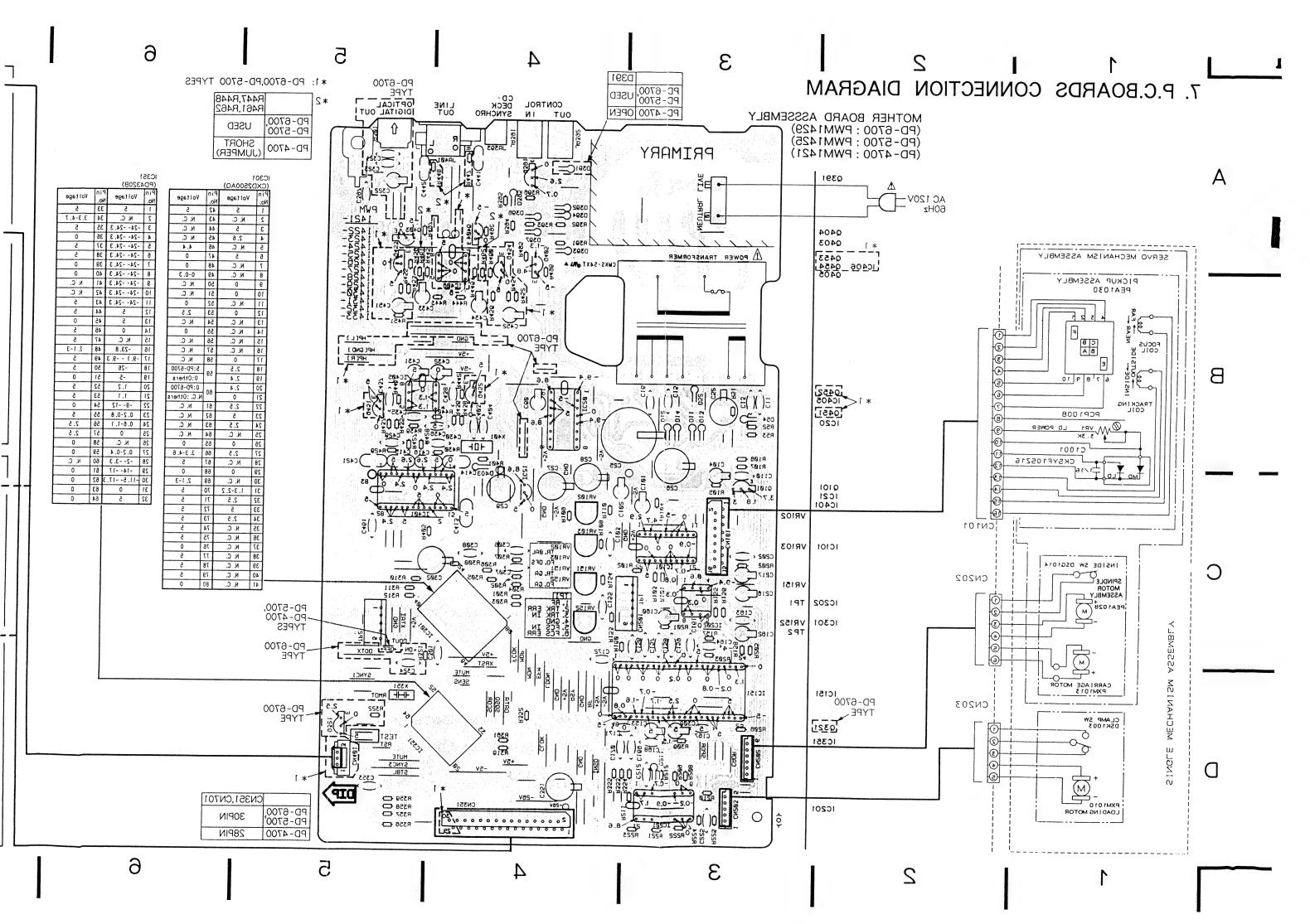
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8. P. C. B's PARTS LIST

NOTES

- Parts without part number cannot be supplied.
- Parts marked by " " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The
 ↑ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
- Ex.1 When there are 2 effective digits(any digit apart from 0), such as 560 ohm and 47k ohm(tolerance is shown by J=5%, and K=10%).

| $560 \ \Omega \rightarrow 56 \times 10^{1} \rightarrow 561 \cdots$ | RD1/4PS 5 6 1 J |
|--|-----------------|
| $47k \Omega \rightarrow 47 \times 10^3 \rightarrow 473 \cdots$ | RD1/4PS 4 7 3 J |
| 0.5 Q→0R5 ····· | RN2HOR5K |
| 1 Ω→010····· | RSIPOTIOK |

Ex.2 When there are 3 effective digits(such as in high precision metal film resistors).

| Mark N | No. | Description | Part No. | Mark | No. | Description | Part No. |
|-------------------|----------|-----------------------|--------------|-------------------|-----------|-------------------|----------------|
| Switch | n Boa | rd Assembly | | | Q101 | TRANSISTOR | 2SA854S |
| | | | | | Q321 | TRANSISTOR | 2SA933S |
| SEMICO | | | | | Q391 | TRANSISTOR | 2SC1740S |
| D | 801 | LED | PCX1019 | | Q403, 404 | TRANSISTOR | 2SD2144S |
| | _ | | | | Q405 | TRANSISTOR | DTC124ES |
| SWITCH | | | | | | | |
| S | 801 | SWITCH (POWER) | PSG1006 | | Q451, 452 | TRANSISTOR | DTA124ES |
| | | | | | Q453, 454 | TRANSISTOR | 2SB1296 |
| Headp | hone | Board Assembly | | Δ | D11-14 | DIODE | 11ES2 |
| /PD- | 6700 | and PD-5700 typ | lac) | 213 | D211 | ZENNER DIODE | MTZJ6, 2B |
| (PD- | 6700 | and PD-5700 typ | <i>jes j</i> | | D391-397 | DIODE | |
| COIL | | | | | D391-391 | | 1SS254 |
| | 501 | | LFAR22M | A | D52 | DIODE | 1SS254 |
| L | 201 | | LFARGEM | $oldsymbol{\Phi}$ | | | 11ES2 |
| CAPACI | ITORS | | | | D54 | ZENNER DIODE | MTZJ18B |
| | 501, 502 | CERAMIC CAPACITOR | CKCYF103Z50 | CAPA | CITORS | | |
| | 504 | CERAMIC CAPACITOR | CKCYF473Z50 | | C101, 102 | ELECTR. CAPACITOR | CEAS101M10 |
| | | | | | C103 | CERAMIC CAPACITOR | CCCCH2O0J50 |
| RESIST | ORS | | | | C104 | ELECTR. CAPACITOR | CEAS101M10 |
| | R501 | VARIABLE RESISTOR | PCS1003 | | C11, 110 | CERAMIC CAPACITOR | CKCYF103Z50 |
| | | (PHONES LEVEL) | . 00.000 | | C13, 15 | CERAMIC CAPACITOR | CKCYF103250 |
| RS | 501, 502 | CARBON FILM RESISTOR | RD1/6PM470J | | 010, 10 | | CHCII IOODOO |
| | | | | | C153 | ELECTR, CAPACITOR | CEAS101M10 |
| OTHERS | S | | | | C155 | CERAMIC CAPACITOR | CKCYB182K50 |
| JA | A501 | JACK (PHONES) | RKN1002 | | C156 | CERAMIC CAPACITOR | CGCYX333K25 |
| | | | | | C157 | CERAMIC CAPACITOR | CGCYX103K25 |
| . | | | | | C158, 159 | CERAMIC CAPACITOR | CGCYX104K25 |
| Moti | her B | oard Assembly | | | | | |
| (PV | NM 14 | 29:PD-6700) | | | C16 | CERAMIC CAPACITOR | CKCYF103Z50 |
| | | | | | C160 | ELECTR. CAPACITOR | CEAS4R7M50 |
| SEMICO | NDUC | TORS | | | C161 | CERAMIC CAPACITOR | CGCYX1D4K25 |
| | C101 | PRE AMP IC | CXA1471S | | C162 | ELECTR. CAPACITOR | CEASO10M50 |
| | C151 | SERVO IC | CXA1372S | | C163 | CERAMIC CAPACITOR | CGCYX1D4K25 |
| $ \mathbf{V} $ 10 | C20 | REGULATOR IC | M5298P | | | | |
| <u>√</u> IC | C201 | POWER OP-AMP, IC | LA6520 | | C164 | CERAMIC CAPACITOR | CGCYX103K25 |
| \overline{V} 10 | C202 | POWER OP-AMP, IC | LA6517 | | C167 | CERAMIC CAPACITOR | CKCYF103Z50 |
| _ | | | | | C168 | CERAMIC CAPACITOR | CGCYX333K25 |
| IC | C21 | REGULATOR, IC | NJM2930-L05 | | C169 | CERAMIC CAPACITOR | CGCYX10 3K25 |
| | C301 | EFM DEMODULATION IC | CXD2500AQ | | C170 | CERAMIC CAPACITOR | CKCYB33 2K50 |
| | C351 | MICROCOMPUTER, IC | PD4320B | | | | OLO LO DO DILO |
| | C401 | D/A CONVERTER, IC | PD2026A | | C171, 172 | CERAMIC CAPACITOR | CKCYB47 2K50 |
| | C405 | OP-AMP IC | NJM4558D-D | | C202 | CERAMIC CAPACITOR | CKCYF10 3Z50 |
| | C406 | OP-AMP IC | BA15218 | | C212 | CERAMIC CAPACITOR | CGCYX10 3K25 |
| | | | | | C216. 217 | ELECTR. CAPACITOR | CEAS330M16 |
| | | | | | C225 | CERAMIC CAPACITOR | CGCYX10 4K25 |
| | | | | | C445 | CENTRIC CAPACITOR | COCIAIU 4N25 |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|-------|------------|------------------------|--------------|----------|----------------|--------------------------------------|----------------------------|
| | C25 | ELECTR. CAPACITOR | CEAS332M16 | ● M | other F | loard Assembly | |
| | C25 | ELECTR. CAPACITOR | CEAS102M16 | (D | NA/BET A | 25:PD-5700) | |
| | C27 | ELECTROLYTIC CAPACIT | CEAS471M6R3 | (- | 44 IAI 144 | 25.FD-5700) | |
| | C28 | ELECTR. CAPACITOR | CEASIOIMIO | CEMI | CONDUC | CTORS | |
| | C29 | ELECTROLYTIC CAPACIT | CEAS471M6R3 | SEMI | | | CV41471C |
| | C29 | ELECTRODITIC CAPACIT | CEAS4 (IMONS | | IC101 IC151 | PRE AMP IC SERVO IC | CXA1471S |
| | C301 | CERAMIC CAPACITOR | CGCYX104K25 | A | IC20 | | CXA1372S |
| | C302 | ELECTROLYTIC CAPACIT | CEAS471M6R3 | Δ | IC201 | REGULATOR IC | M5298P |
| | C302 | CERAMIC CAPACITOR | CKCYB152K50 | Δ | IC201 | POWER OP-AMP, IC POWER OP-AMP, IC | LA6520 LA6517 |
| | C307 | CERAMIC CAPACITOR | CGCYX473K25 | 213 | 10202 | FOWER OF AMP, IC | LAGSII |
| | C308 | CERAMIC CAPACITOR | CGCYX103K25 | | IC21 | REGULATOR, IC | NJM2930-L05 |
| | 0000 | Committee on Action | COCIAIOONDO | | IC301 | EFM DEMODULATION IC | CXD2500AQ |
| | C309 | ELECTR. CAPACITOR | CEASR47M50 | | IC351 | MICROCOMPUTER, IC | PD4320B |
| | C321 | CERAMIC CAPACITOR | CGCYX104K25 | | IC401 | D/A CONVERTER, IC | PD2026A |
| | C322 | ELECTR. CAPACITOR | CEAS330M16 | | IC405 | OP-AMP IC | NJM4558D-D |
| | C323 | CERAMIC CAPACITOR | CKCYF473Z50 | | IC406 | OP-AMP IC | BA15218 |
| | C324 | CERAMIC CAPACITOR | CCCCH100D50 | | 10100 | | Difference |
| | | | | | Q101 | TRANSISTOR | 2SA854S |
| | C351 | ELECTROLYTIC CAPACIT | CEAS471M6R3 | | Q391 | TRANSISTOR | 2SC1740S |
| | C353 | CERAMIC CAPACITOR | CKCYF103Z50 | | | TRANSISTOR | 2SD2144S |
| | C397 | MYLOR FILM CAPACITOR | CQMA104K50 | | Q405 | TRANSISTOR | DTC124ES |
| | C403 | CERAMIC CAPACITOR | CCCCH120J50 | | | TRANSISTOR | DTA124ES |
| | C404 | CERAMIC CAPACITOR | CCCCH220J50 | | Q453, 454 | | 2SB1296 |
| | | | | | | | |
| | | MYLOR FILM CAPACITOR | CQMA104K50 | Δ | D11-14 | DIODE | 11ES2 |
| | C415, 416 | AUDIO FILM CAPACITOR | CFTXA104J50 | | D211 | ZENNER DIODE | MTZJ6. 2B |
| | C421 | MYLOR FILM CAPACITOR | CQMA103K50 | | D391-397 | DIODE | 1SS254 |
| | | CERAMIC CAPACITOR | CCCCH390J50 | | D403 | DIODE | 1SS254 |
| | C431, 432 | ELECTR. CAPACITOR | CEAS330M16 | Δ | D52 | DIODE | 11ES2 |
| | | | | | D54 | ZENNER DIODE | MTZJ18B |
| | | ELECTR. CAPACITOR | CEAS220M50 | | | | |
| | | CERAMIC CAPACITOR | CCCCH390J50 | CAPA | CITORS | | |
| | | PL. STYRENE CAPACITOR | CQSA152J50 | | | ELECTR. CAPACITOR | CEAS101M10 |
| | | ELECTR. CAPACITOR | CEAS4R7M50 | | C103 | CERAMIC CAPACITOR | CCCCH200J50 |
| | C461 | CERAMIC CAPACITOR | CKCYF103Z50 | | C104 | ELECTR. CAPACITOR | CEAS101M10 |
| | cro | DI DOTO GIDIGITOD | 0010101107 | | C11, 110 | CERAMIC CAPACITOR | CKCYF103Z50 |
| | C52 | ELECTR. CAPACITOR | CEAS101M35 | | C13, 15 | CERAMIC CAPACITOR | CKCYF103Z50 |
| | C60 | ELECTR. CAPACITOR | CEAS010M50 | | CICO | PIECED CIDICITOR | 0D10101410 |
| RESIS | TORS | | | | C153 C155 | ELECTR. CAPACITOR | CEASIOIMIO |
| | VR102 | VR (22kΩ) | RCP1046 | | C155 | CERAMIC CAPACITOR | CKCYB182K50 |
| | VR103 | VR (1kΩ) | RCP1044 | | C150 | CERAMIC CAPACITOR CERAMIC CAPACITOR | CGCYX333K25 |
| | | $VR (22k\Omega)$ | RCP1046 | | C158, 159 | CERAMIC CAPACITOR | CGCYX103K25 CGCYX104K25 |
| | Other res | istors | RD1/6PM□□□J | | C130, 133 | CERAMIC CAPACITOR | COCIAIU4NZ) |
| | | 7 | | | C16 | CERAMIC CAPACITOR | CKCYF103Z50 |
| OTHE | RS | | | | C160 | ELECTR. CAPACITOR | CEAS4R7M50 |
| | CN101 | CONNECTOR | 52045-1610 | | C161 | CERAMIC CAPACITOR | CGCYX104K25 |
| | CN351 | CONNECTOR | 9602S-30C | | C162 | ELECTR. CAPACITOR | CEAS010M50 |
| | JA301 | OPTICAL OUTPUT JACK | TOTX178 | | C163 | CERAMIC CAPACITOR | CGCYX104K25 |
| | JA391, 392 | JACK/12V | PKN1004 | | | | 0001/110 1112 |
| | | (CONTROL IN, OUT) | | | C164 | CERAMIC CAPACITOR | CGCYX103K25 |
| | JA393 | JACK | PKN1005 | | C167 | CERAMIC CAPACITOR | CKCYF103Z50 |
| | | (CD DECK SYNCHRO) | | | C168 | CERAMIC CAPACITOR | CGCYX333K25 |
| | * | | | | C169 | CERAMIC CAPACITOR | CGCYX103K25 |
| | JA401 | JACK (LINE OUT L, R) | PKB1009 | | C170 | CERAMIC CAPACITOR | CKCYB332K50 |
| | X351 | CERAMIC RESONATOR | VSS1014 | | | | |
| | | (4.19MHz) | | | C171, 172 | CERAMIC CAPACITOR | CKCYB472K50 |
| | X401 | XTAL RES (OSC) | PSS1006 | | C202 | CERAMIC CAPACITOR | CKCYF103Z50 |
| | | (16.9344MHz) | | | C212 | CERAMIC CAPACITOR | CGCYX103K25 |
| | | | | | C216, 217 | ELECTR. CAPACITOR | CEAS330M16 |
| | | | | | C225 | CERAMIC CAPACITOR | CGCYX104K25 |
| | | | | | COF | PLEATE CARACTEC | OD 1000000 |
| | | | | | C25 | ELECTR. CAPACITOR | CEAS332M16 |
| | | | | | C26 | ELECTR. CAPACITOR | CEAS102M16 |
| | | | | | C27 | ELECTROLYTIC CAPACIT | CEAS471M6R3 |
| | | | | | C28 | ELECTR. CAPACITOR | CEASIOIMIO |
| | | | | | C29 | ELECTROLYTIC CAPACIT | CEAS471M6R3 |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|------------|-------------------|-------------------------------------|---|----------|-----------|----------------------|----------------------------|
| | C301 | CERAMIC CAPACITOR | CGCYX104K25 | Δ | D11-14 | DIODE | 11ES2 |
| | C302 | ELECTROLYTIC CAPACIT | CEAS471M6R3 | _ | D211 | ZENNER DIODE | MTZJ6. 2B |
| | C306 | CERAMIC CAPACITOR | CKCYB152K50 | | D392-397 | | 1SS254 |
| | C307 | CERAMIC CAPACITOR | CGCYX473K25 | | D403 | DIODE | 1SS254 |
| | C308 | CERAMIC CAPACITOR | CGCYX103K25 | Δ | D52 | DIODE | 11ES2 |
| | | | | _ | D54 | ZENNER DIODE | MTZJ18B |
| | C309 | ELECTR. CAPACITOR | CEASR47M50 | 0404 | OITO DO | | |
| | C351 | ELECTROLYTIC CAPACIT | CEAS471M6R3 | CAPA | CITORS | | |
| | C353 | CERAMIC CAPACITOR | CKCYF103Z50 | | C101, 102 | | CEAS101M10 |
| | C397 | MYLOR FILM CAPACITOR | CQMA104K50 | | C103 | CERAMIC CAPACITOR | CCCCH200J50 |
| | C403 | CERAMIC CAPACITOR | CCCCH120J50 | | C104 | ELECTR. CAPACITOR | CEAS101M10 |
| | | | | | C11, 110 | CERAMIC CAPACITOR | CKCYF103Z50 |
| | C404 | CERAMIC CAPACITOR | CCCCH220J50 | | C13, 15 | CERAMIC CAPACITOR | CKCYF103Z50 |
| | C413-416 | | CQMA104K50 | | C153 | ELECTR. CAPACITOR | CEAS101M10 |
| | C421 | MYLOR FILM CAPACITOR | CQMA103K50 | | C155 | CERAMIC CAPACITOR | CKCYB182K50 |
| | | CERAMIC CAPACITOR | CCCCH390J50 | | C156 | CERAMIC CAPACITOR | CGCYX333K25 |
| | C431, 432 | ELECTR. CAPACITOR | CEAS330M16 | | 0168 | 00011110 01010100 | |
| | C422 424 | ELECTE CADACITOD | CETESSUMSE | | C157 | CERAMIC CAPACITOR | CGCYX103K25 |
| | | ELECTR. CAPACITOR | CEAS220M25 | | C158, 159 | CERAMIC CAPACITOR | CGCYX104K25 |
| | | CERAMIC CAPACITOR | CCCCH390J50 | | C16 | CERAMIC CAPACITOR | CKCYF103Z50 |
| | | MYLOR FILM CAPACITOR | CQMA152J50 | | C160 | ELECTR. CAPACITOR | CEAS4R7M50 |
| | C451, 452 C461 | ELECTR. CAPACITOR CERAMIC CAPACITOR | CEAS4R7M50 CKCYF103Z50 | | C161 | CERAMIC CAPACITOR | CGCYX104K25 |
| | C401 | CENTRIC CAPACITOR | CUC11.109790 | | C162 | ELECTR. CAPACITOR | CEASO 10M50 |
| | C52 | ELECTR, CAPACITOR | CEAS101M35 | | C163 | CERAMIC CAPACITOR | CGCYX104K25 |
| | C60 | ELECTR. CAPACITOR | CEASO10M50 | | C164 | CERAMIC CAPACITOR | CGCYX103K25 |
| | COO | ELECTIC CAT ACT TON | CEASOTOMSO | | C164 | CERAMIC CAPACITOR | |
| RESIS | STORS | | | | C167 | CERAMIC CAPACITOR | CKCYF103Z50 CGCYX333K25 |
| | VR102 | VR (22kΩ) | RCP1046 | | CIUU | CERAMIC CAPACITOR | COC(A 3 3 3 K 2 3 |
| | VR103 | VR (1kΩ) | RCP1044 | | C169 | CERAMIC CAPACITOR | CGCYX 103K25 |
| | | 2 VR (22kΩ) | RCP1046 | | C170 | CERAMIC CAPACITOR | CKCYB332K50 |
| | Other res | | RD1/6PM | | C171, 172 | | CKCYB472K50 |
| | 01 | | | | C202 | CERAMIC CAPACITOR | CKC/F103Z50 |
| OTHE | RS | | | | C212 | CERAMIC CAPACITOR | CGCYX 103K25 |
| | CN101 | CONNECTOR | 52045-1610 | | 0010 | CLIMBIC CHINCIION | COCIA TOURZO |
| | CN351 | CONNECTOR | 9602S-30C | | C216, 217 | ELECTR. CAPACITOR | CEA\$330M16 |
| | | 2 JACK/12V | PKN1004 | | C225 | CERAMIC CAPACITOR | CGCIX 104K25 |
| | | (CONTROL IN, OUT) | *************************************** | | C25 | ELECTR. CAPACITOR | CEA\$332M16 |
| | JA393 | JACK | PKN1005 | | C26 | ELECTR. CAPACITOR | CEASI O2M16 |
| | | (CD DECK SYNCHRO) | | | C27 | ELECTROLYTIC CAPACIT | CEASA 71M6R3 |
| | JA401 | JACK | PKB1009 | | | DEDOCTOR TO CHANCEL | CDID4 1 IMORO |
| | | (LINE OUT L, R) | | | C28 | ELECTR, CAPACITOR | CEA\$1 01M10 |
| | X351 | CERAMIC RESONATOR | VSS1014 | | C29 | ELECTROLYTIC CAPACIT | CEASA 71M6R3 |
| | | (4.19MHz) | | | C301 | CERAMIC CAPACITOR | CGCIX 104K25 |
| | X401 | XTAL RES (OSC) | PSS1006 | | C302 | ELECTROLYTIC CAPACIT | CEAS4 71M6R3 |
| | | (16.9344MHz) | | | C306 | CERAMIC CAPACITOR | CKC/B 152K50 |
| | | | | | | | |
| €M. | ther P | oard Assembly | | | C307 | CERAMIC CAPACITOR | CGCIX 473K25 |
| | | | | | C308 | CERAMIC CAPACITOR | CGC X 103K25 |
| (P | WM142 | 1:PD-4700) | | | C309 | ELECTR. CAPACITOR | CEASR 47M50 |
| 2511 | ONDUC | TORC | | | C351 | ELECTROLYTIC CAPACIT | CEASA 71M6R3 |
| SEMIC | CONDUC | | OV41 4810 | | C353 | CERAMIC CAPACITOR | CKCF 103Z50 |
| | IC101 | PRE AMP IC | CXA1471S | | | | |
| | IC151 | SERVO IC | CXA1372S | | C397 | MYLOR FILM CAPACITOR | COMIL O4K50 |
| Ţ Ţ | IC20 | REGULATOR IC | M5298P | | C403 | CERAMIC CAPACITOR | CCCH 120J50 |
| <u>1</u> 2 | IC201 | POWER OP-AMP, IC | LA6520 | | C404 | CERAMIC CAPACITOR | CCCH220J50 |
| Δ | IC202 | POWER OP-AMP, IC | LA6517 | | C413-416 | MYLOR FILM CAPACITOR | CQMAL CO4K50 |
| | 1001 | DECLE ATOD TO | 111110000 105 | | C421 | MYLOR FILM CAPACITOR | CQMAL (3K50 |
| | IC21 | REGULATOR, IC | NJM2930-L05 | | 0400 400 | OPPANIA CARACTEC | 000000000000000 |
| | IC301 | EFM DEMODULATION IC | CXD2500AQ | | | CERAMIC CAPACITOR | CCC(1390J50 |
| | IC351 | MICROCOMPUTER, IC | PD4320B | | | ELECTR. CAPACITOR | CEAS 30M16 |
| | IC401 | D/A CONVERTER, IC | PD2026A | | | ELECTR. CAPACITOR | CEAS 20M25 |
| | IC405 | OP-AMP IC | NJM4558D-D | | | CERAMIC CAPACITOR | CCC(1390J50 |
| | 0101 | TRANCICTOR | 2010540 | | C441, 442 | MYLOR FILM CAPACITOR | CQMA 52J50 |
| | Q101 | TRANSISTOR | 2SA854S | | 0.401 | OPPLIES CITIES | AUG: - AC |
| | Q391 | TRANSISTOR | 2SC1740S | | C461 | CERAMIC CAPACITOR | CKCY 1 03250 |
| | Q403, 404 | TRANSISTOR | 2SD2144S | | C52 | ELECTR. CAPACITOR | CEASIO 1M35 |
| | Q405 | TRANSISTOR | DTC124ES | | C60 | ELECTR. CAPACITOR | CEASIL OM50 |
| | | | | | | | |

| Mark | No. | Description | Part No. | Mark | No. | Description | Part No. |
|-------------------|--|--|--------------------|---|---------------|--|----------------------|
| RESIS | STORS | | | RESIS | STOR | | |
| | VR102 | VR (22kΩ) | RCP1046 | ILOR | R701 | CARBON FILM RESISTOR | DD1 /6DM/71 1 |
| | VR103 | VR (1kΩ) | RCP1044 | | 11.01 | CARDON FILM RESISTOR | RD1/6PM471J |
| | VR151, 15 | 52 VR (22kΩ) | RCP1046 | OTHE | RS | | |
| | Other re | esistors | RD1/6PM J | • | | REMOTE SENSOR | GP1U50X |
| | | | | | CN701 | CONNECTOR | 9602S-30F |
| OTHE | | | | | V701 | FL INDICATOR TUBE | PEL1051 |
| | CN101 | CONNECTOR | 52045-1610 | | | | |
| | CN351 | CONNECTOR | 9602S-28C | | | _ | |
| | JA391, 39 | 2 JACK/12V | PKN1004 | Fu | nction | Board Assembly | |
| | | (CONTROL IN, OUT) | | (PW | Z2094 | :PD-4700) | |
| | JA393 | JACK | PKN1005 | | | | |
| | | (CD DECK SYNCHRO) | | SEMIC | CONDUC | CTORS | |
| | JA401 | JACK · | PKB1009 | | D701-704 | DIODE | 1SS254 |
| | VACA | (LINE OUT L, R) | | | D708-711 | DIODE | 1SS254 |
| | X351 | CERAMIC RESONATOR | VSS1014 | | | | |
| | V 401 | (4.19MHz) | | SWIT | | | |
| | X401 | XTAL RES (OSC) | PSS1006 | | S701-713 | SWITCH | PSG1006 |
| | | (16.9344MHz) | | | PEAK SEAL | RCH, CHECK, CLEAR, PGM, EDIT, | \ |
| | | | | | RANDOM PI | LAY, MANUAL SEARCH(< | |
| @ E. | netion | Board Assembly | | | STOP (|]),PLAY(◁). | 1 |
| O Fu | 701011 | Board Assembly | | | TRACK SEA | ARCH ($[\triangleleft \triangleleft, \triangleright \triangleright [$), | |
| (PW | Z2103 | :PD-6700) | | | PAUSE (| 00) |) |
| CELUC | ONDILL | 7000 | | | S724-739 | SWITCH | PSG1006 |
| SEMIC | ONDUC | | | | OPEN/CLOS | SE (A) , HI-LITE SCAN, | 1001000 |
| | D701-711 | DIODE | 1SS254 | | REPEAT, TI | ME, | |
| DECIC | TOD | | | | TRACK NUM | BER (1-10, +10, >20) | |
| RESIS | | 61776W 751W 756 | | | | | |
| | R701 | CARBON FILM RESISTOR | RD1/6PM471J | RESIS | TOR | | |
| CWITC | MEC | | | | R701 | CARBON FILM RESISTOR | RD1/6PM471J |
| SWITC | S701-735 | CWI MOIL | | | | | |
| | PEAK SEAR RANDOM PI STOP (TRACK SEA PAUSE (TRACK NUM OPEN/CLOS REPEAT, TI S737-739 | RCH, CHECK, CLEAR, PGM, EDIT, AY, MANUAL SEARCH(<\d, DD)) . PLAY (<\d) . ARCH ([<\d , DD)) . BER (4-20, >20) . BE (\triangle) . HI-LITE SCAN, ME SWITCH | PSG1006 | OTHEI | CN701 V701 | CONNECTOR FL INDICATOR TUBE | 9602S-28F PEL1051 |
| | (TRACK N | UMBER (3, 2, 1)) | | | | | |
| OTHER | 25 | | | | | | |
| · · · · · · · · · | | REMOTE SENSOR | GP1U50X | | | | |
| | CN701 | CONNECTOR | 9602S-30F | | | | |
| | V701 | FL INDICATOR TUBE | PEL1051 | | | | |
| | | 12 moranon robb | ILLIUSI | | | | |
| ● Fur (PW) | nction Z2096: | Board Assembly PD-5700) | | | | | |
| SEMIC | ONDUC | TOPS | | | | | |
| | D701-704 | | 100004 | | | | |
| | D708-711 | | 1SS254 | | | | |
| | 0100 111 | DIODE | 1SS254 | | | | |
| | S701-713 PEAK SEAR(RANDOM PL/ STOP (| CH, CHECK, CLEAR, PGM, EDIT, AY, MANUAL SEARCH(⟨□⟨, □□⟩), PLAY (⟨□⟩), RCH (□⟨□⟨, □□□)), U SWITCH C (△), HI-LITE SCAN, | PSG1006 PSG1006 | | | | |

9. ADJUSTMENTS

9.1. Adjustment Methods

If a disc player is adjusted incorrectly or inadequately, it may malfunction or not work at all even though there is nothing at all wrong with the pickup or the circuitry. Adjust correctly following the adjustment procedure.

Adjustment items/verification items and order

| Step | Item | Test point | Adjustment location |
|------|--|---|---|
| 1 | Focus offset adjustment | TP1, Pin 6 (FCS. ERR) | VR103 (FCS. OFS) |
| 2 | Grating adjustment | TP1, Pin 2(TRK. ERR) | Grating adjustment slit |
| 3 | Tracking error balance adjustment | TP1, Pin 2(TRK. ERR) | VR102(TRK. BAL) |
| 4 | Pickup radial/tangential direction tilt adjustment | TP1, Pin 1 (RF) | Radial tilt adjustment screw, Tangential tilt adjustment screw |
| 5 | RF level adjustment | TP1, Pin 1 (RF) | VR1 (RF level) |
| 6 | Focus servo loop gain adjustment | TP1, Pin 5 (FCS. IN) TP1, Pin 6 (FCS. ERR) | VR152 (FCS. GAN) |
| 7 | Tracking servo loop gain adjustment | TP1, Pin 3 (TRK. IN) TP1, Pin 2 (TRK. ERR) | VR151 (TRK. GAN) |
| 8 | Focus error signal verification | TP1, Pin 6 (FCS. ERR) | |

Abbreviation table

FCS. ERR :Focus Error
FCS. OFS :Focus Offset
TRK. ERR :Tracking Error
TRK. BAL :Tracking Balance
FCS. GAN :Focus Gain
TRK. GAN :Tracking Gain
FCS. IN :Focus In
TRK. IN :Tracking In

Measuring instruments and tools

- 1. Dual trance oscilloscope (10:1 probe)
- 2. Low-frequency oscillator
- 3. Test disc (YEDS-7)
- 4. 12-cm disc (with at least about 70 minutes recording)
- 5. Low-pass filter (39 k Ω + 0.001 μ F)
- 6. Resistor (100 k Ω)
- 7. Hexagonal wrench (M3 mm)
- 8. Standard tools

Test point and adjustment variable resistor positions

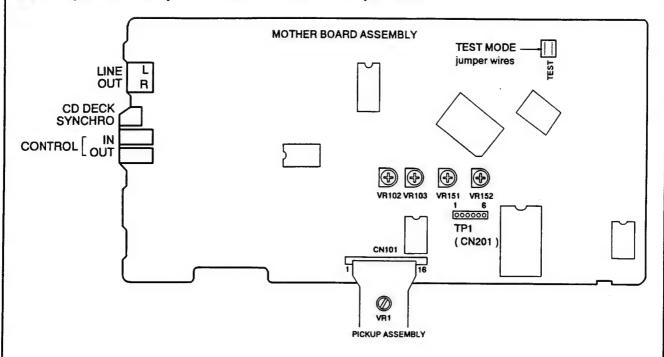


Figure 1 Adjustment Locations

Notes

- 1. Use a 10:1 probe for the oscilloscope.
- 2. All the knob positions (settings) for the oscilloscope in the adjustment procedures are for when a 10:1 probe is used.

Test mode

These models have a test mode so that the adjustments and checks required for service can be carried out easily. When these models are in test mode, the keys on the front panel work differently from normal. Adjustments and checks can be carried out by operating these keys with the correct procedure. For these models, all adjustments are carried out in test mode.

[Setting these models to test mode]

How to set this model into test mode.

- 1. Unplug the power cord from the AC socket.
- 2. Short the test mode jumper wires. (See Figure 1.)
- 3. Plug the power cord back into the AC socket.

When the test mode is set correctly, the display is different from what it usually is when the power is turned on. If the display is still the same as usual, test mode has not been set correctly, so repeat Steps 1 - 3.

[Release from test mode]

Here is the procedure for releasing the test mode:

- 1. Press the STOP key and stop all operations.
- 2. Unplug the power cord from the AC socket.

[Operations of the keys in test mode]

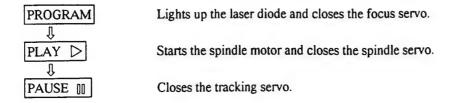
| Code | Key name | Function in test mode | Explanation |
|------|----------|---------------------------|--|
| | PROGRAM | Focus servo close | The laser diode is lit up and the focus actuator is lowered, then raised slowly and the focus servo is closed at the point where the objective lens is focused on the disc. With the player in this state, if you lightly rotate the stopped disc by hand, you can hear the sound the focus servo. If you can hear this sound, the focus servo is operating correctly. If you press this key with no disc mounted, the laser diode lights up, the focus actuator is pulled down, then the actuator is raised and lowered twice and returned to its original position. |
| | PLAY | Spindle servo ON | Starts the spindle motor in the clockwise direction and when the disc rotation reaches the prescribed speed (about 500 rpm at the inner periphery), sets the spindle servo in a closed loop. Be careful. Pressing this key when there is no disc mounted makes the spindle motor run at the maximum speed. If the focus servo does not go correctly into a closed loop or the laser light shines on the mirror section at the outermost periphery of the disc, the same symptom is occurred. |
| 00 | PAUSE | Tracking servo close/open | Pressing this key when the focus servo and spindle servo are operating correctly in closed loops puts the tracking servo into a closed loop, displays the track number being played back and the elapsed time on the front panel, and outputs the playback signal. If the elapsed time is not displayed or not counted correctly or the audio is not played back correctly, it may be that the laser is shining on the section with no sound recorded at the outer edge of the disc, that something is out of adjustment, or that there is some other problem. This key is a toggle key and open/close the tracking servo alternately. This key has no effect if no disc is mounted. |

| Code | Key name | Function in test mode | Explanation |
|----------|----------------------|-------------------------------|--|
| 苓 | MANUAL SEARCH REV | Carriage reverse (inwards) | Moves the pickup position toward the inner diameter of the disc. When this key is pressed with the tracking servo in a closed loop, the tracking servo automatically goes into an open loop. Since the motor does not automatically stop at the mechanical end point in test mode, be careful with this operation. |
| ⋈ | MANUAL SEARCH FWD | Carriage forward (outwards) | Moves the pickup position toward the outer diameter of the disc. When this key is pressed with the tracking servo in a closed loop, the tracking servo automatically goes into an open loop. Since the motor does not automatically stop at the mechanical end point in test mode, be careful with this operation. |
| | STOP | Stop | Switches off all the servos and initialized. The pickup remains where it was when this key was pressed. |
| △ | OPEN/CLOSE | Disc tray open/close | Open/close the disc tray. This key is a toggle key and open/close tray altenately. Pressing this key when the disc is turning stops the disc, then opens the tray. This key operation does not affect the position of the pickup. |

[How to play back a disc in test mode]

In test mode, since the servos operate independently, playing back a disc requires that you operate the keys in the correct order to close the servos.

Here is the key operation sequence for playing back a disc in test mode.



Wait at least 2-3 seconds between each of these operations.

1. Focus Offset Adjustment

| Objective | Sets the DO | Sets the DC offset for the focus error amp. | | | |
|---|---|---|-----------------------|---|--|
| Symptom when out of adjustment | The model does not focus in and the RF signal is dirty. | | | | |
| Measurement instru- ment connections | Connect the oscilloscope to TP1, Pin 6 (FCS. ERR) | | Player state | Test mode, stopped (just the Power switch on) | |
| | [Settings] | 5 mV/division 10 ms/division | ● Adjustment location | VR103 (FCS. OFS) | |
| DC mode | | • Disc | None needed | | |

[Procedure]

Adjust VR103 (FCS. OFS) so that the DC voltage at TP1, Pin 6 (FCS. ERR) is -50 ± 50 mV.

2. Grating Adjustment

| ● Objective | To align th | To align the tracking error generation laser beam spots to the optimum angle on the track. | | | | |
|---|--|--|--------------------------------------|--|--|--|
| Symptom when out of adjustment | Play does not start, track search is impossible, tracks are skipped. | | | | | |
| Measurement instru- ment connections | Connect the oscinoscope to | | Player state Adjustment location | Test mode, focus and spindle servos closed and tracking servo open Pickup grating adjustment slit | | |
| | | | ● Disc | 12-cm disc. (YEDS-7 can not be used.) | | |

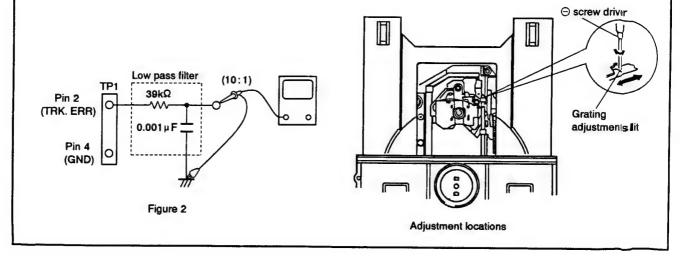
[Procedure]

- 1. Move the pickup to the outer edge of the disc with the MANUAL SEARCH FWD >> or REV << key.
- 2. Press the PROGRAM key, then the PLAY ▷ key in that order to close the focus servo then the spindle servo.
- 3. Insert an ordinary screwdriver into the grating adjustment slit and adjust the grating to find the null point. For more details, see the next page.
- 4. If you slowly turn the screwdriver counterclockwise from the null point, the amplitude of the wave gradually increases, then if you continue turning the screwdriver, the amplitude of the wave becomes smaller again. Turn the screwdriver counterclockwise from the null point and set the grating to the first point where the wave amplitude reaches its maximum.

Reference: Figure 3 shows the relation between the angle of the tracking beam with the track and the waveform.

Note

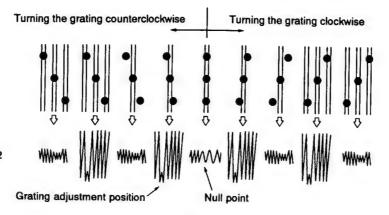
- : The amplitude of the tracking error signal is about 3 Vp-p (when a 39 k Ω + 0.001 μ F low pass filter is used). If this amplitude is extremely small (2 Vp-p or less), the objective lens or the pickup malfunction may be the cause. If the difference between the amplitude of the error signal at the innermost edge and outermost edge of the disc is more than 10%, the grating is not adjusted to the optimum point, so adjust it again.
- 5. Return the pickup to more or less midway across the disc with the MANUAL SEARCH REV << key, press he PAUSE II key and double check that the track number and elapsed time are displayed on the front panel. If they are not displayed at this time or the elapsed time changes irregularly, double check the null point and adjust the gating again.



[How to find the null point]

When you insert the regular screwdriver into the slit for the grating adjustment and change the grating angle, the amplitude of the tracking error signal at TP1, Pin 2 changes. Within the range for the grating, there are five or six locations where the amplitude of the wave reaches a minimum. Of these five or six locations, there is only one at which the envelope of the waveform is smooth. This location is where the three laser beams divided by the grating are all right above the same track. (See Figure 3.)

This point is called the null point. When adjusting the grating, this null point is found and used as the reference position.



Waveform of TP1, Pin 2

Figure 3



Null point waveform



Maximum amplitude waveform



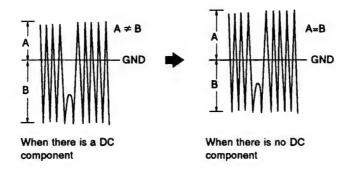
Waveform other than the null point

3. Tracking Error Balance Adjustment

| Objective | To correct | To correct for the variation in the sensitivity of the tracking photodiode. | | | | |
|---|--|---|--------------------------------------|--|--|--|
| Symptom when out of adjustment | Play does not start or track search is impossible. | | | | | |
| Measurement instru- ment connections | Connect the oscilloscope to TP1, Pin 2 (TRK. ERR). This connection may be via a low pass filter. | | Player state Adjustment location | Test mode, focus and spindle servos closed and tracking servo open VR102 (TRK. BAL) | | |
| | [Settings] | 50 mV/division 5 ms/division DC mode | ● Disc | YEDS-7 | | |

[Procedure]

- 1. Move the pickup to midway across the disc (R=35 mm) with the MANUAL SEARCH FWD ▷▷ or REV ⋄ key.
- 2. Press the PROGRAM key, then the PLAY > key in that order to close the focus servo then the spindle servo.
- 3. Line up the bright line (ground) at the center of the oscilloscope screen and put the oscilloscope into DC mode.
- 4. Adjust VR102 (TRK. BAL) so that the positive amplitude and negative amplitude of the tracking error signal at TP1, Pin 2 (TRK. ERR) are the same (in other words, so that there is no DC component).



4. Pickup Radial/Tangential Tilt Adjustment

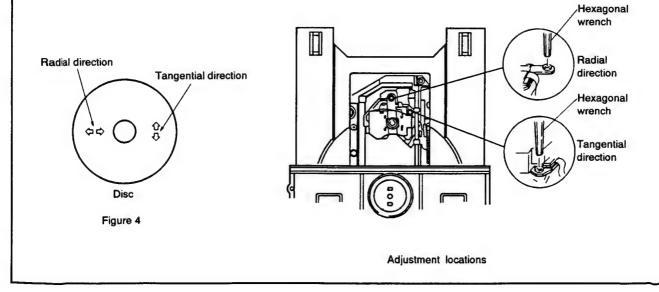
| Objective Symptom when out of adjustment | To adjust the angle of the pickup relative to the disc so that the laser beams are shone straight down into the disc for the best read out of the RF signals. Sound broken; some discs can be played but not others. | | | | |
|--|---|--|---|--|--|
| Measurement instru- ment connections | Connect the TP1, Pin 1 [Settings] | e oscilloscope to (RF). 20 mV/division 200 ns/division AC mode | Player state Adjustment location Disc | Test mode, play Pickup radial tilt adjustment screw and tangential tilt adjustment screw 12- cm disc. (YEDS-7 can not be used.) | |

[Procedure]

- 1. Press the MANUAL SEARCH FWD ▷▷ or REV ▷▷ well key so that the radial/tangential tilt screws can be adjusted.

 Press the PROGRAM key, the PLAY ▷ key, then the PAUSE □□ key in that order to close the focus servo then the spindle servo and put the player into play mode.
- 2. First, adjust the radial tilt adjustment screw with an M3-mm hexagonal wrench so that the eye pattern (the diamond shape at the center of the RF signal) can be seen the most clearly.
- 3. Next, adjust the tangential tilt adjustment screw with an M3-mm hexagonal wrench so that the eye pattern (the diamond shape at the center of the RF signal) can be seen the most clearly (Figure 5).
- 4. Adjust the radial tilt adjustment screw and the tangential tilt adjustment screw again so that the eye pattern can be seen the most clearly. As necessary, adjust the two screws alternately so that the eye pattern can be seen the most clearly.

Note: Radial and tangential mean the directions relative to the disc shown in Figure 4.



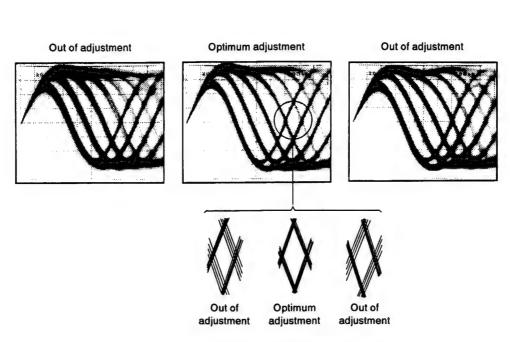


Figure 5 Eye pattern

5. RF Level Adjustment

| Objective | To optimize the playback RF signal amplitude | | | | | |
|---|--|---|-----------------------|------------------|--|--|
| Symptom when out of adjustment | No play or no search | | | | | |
| Measurement instru- ment connections | Connect the oscilloscope to TP1, Pin 1 (RF). | | ● Player state | Test mode, play | | |
| | [Settings] | 50 mV/division 10 ms/division AC mode | ● Adjustment location | VR1(laser power) | | |
| | | | ● Disc | YEDS-7 | | |

[Procedure]

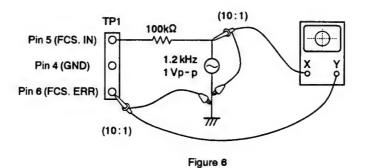
- 1. Move the pickup to midway across the disc (R=35 mm) with the MANUAL SEARCH FWD ▷▷ or REV ▷ key, then press the PROGRAM key, then the PLAY ▷ key in that order to close the respective servos and put the player into play mode.
- 2. Adjust VR1 (laser power) so that the RF signal amplitude is 1.2 Vp-p \pm 0.1 V.

6. Focus Servo Loop Gain Adjustment

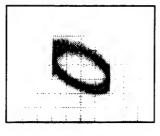
| ● Objective | To optimize the focus servo loop gain. | | | | | |
|---|--|---------------------|------------------|--|--|--|
| Symptom when out of adjustment | Playback does not start or focus actuator noisy. | | | | | |
| Measurement instru- ment connections | See figure 6. [Settings] | Player state | Test mode, play | | | |
| | CH1 CH2 20 mV/division 5 mV/division | Adjustment location | VR152 (FCS. GAN) | | | |
| | X-Y mode | ● Disc | YEDS-7 | | | |

[Procedure]

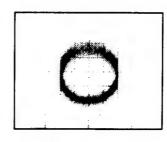
- 1. Set the AF generator output to 1.2 kHz and 1 Vp-p.
- 2. Press the MANUAL SEARCH FWD ▷▷ or REV ▷▷ key to move the pickup to halfway across the disc (R=35 mm), then press the PROGRAM key, the PLAY ▷ key, then the PAUSE □□ key in that order to close the corresponding servos and put the player into play mode.
- 3. Adjust VR152 (FCS. GAN) so that the Lissajous waveform is symmetrical about the X axis and the Y axis.



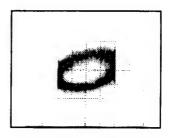
Focus Gain Adjustment







Optimum gain



Lower gain

7. Tracking Servo Loop Gain Adjustment

| ● Objective | To optimize the tracking servo loop gain. | | | | | | |
|---|--|-----------------------|------------------|--|--|--|--|
| Symptom when out of adjustment | Playback does not start, during searches the actuator is noisy, or tracks are skipped. | | | | | | |
| Measurement instru- ment connections | See Figure 7. | ● Player state | Test mode, play | | | | |
| | [Settings] CH1 CH2 | ● Adjustment location | VR151 (TRK. GAN) | | | | |
| | 50 mV/division 50 mV/division X-Y mode | ● Disc | YEDS-7 | | | | |

[Procedure]

- 1. Set the AF generator output to 1.2 kHz and 2 Vp-p.
- 2. Press the MANUAL SEARCH FWD ▷▷ or REV ▷▷ key to move the pickup to halfway across the disc (R=35 mm), then press the PROGRAM key, the PLAY ▷ key, then the PAUSE □□ key in that order to close the corresponding servos and put the player into play mode.
- 3. Adjust VR151 (TRK. GAN) so that the Lissajous waveform is symmetrical about the X axis and the Y axis.

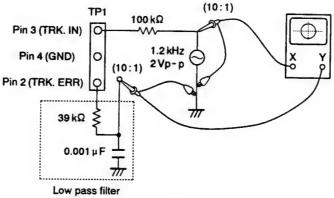
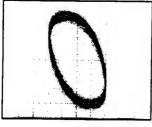
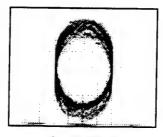


Figure 7

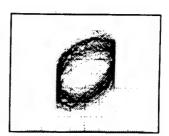
Tracking Gain Adjustment



Higher gain



Optimum gain



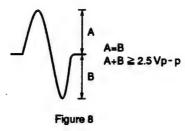
Lower gain

8. Focus Error Signal (Focus S Curve) Verification

| Objective | judged from | To judge whether the pickup is ok or not by observing the focus error signal. The pickup is judged from the amplitude of the tracking error signal (as discussed in the section on adjusting the tracking error balance) and the waveform for the focus error signal. | | | | | | |
|---|-------------|---|-----------------------|-----------------|--|--|--|--|
| Symptom when out of adjustment | | | | | | | | |
| Measurement instru- ment connections | | e oscilloscope to (FCS. ERR). | Player state | Test mode, stop | | | | |
| | [Settings] | 100 mV/division | ● Adjustment location | None | | | | |
| | | 5 ms/division DC mode | • Disc | YEDS-7 | | | | |

[Procedure]

- 1. Connect TP1 Pin 5 to ground.
- 2. Mount the disc.
- 3. While watching the oscilloscope screen, press the PROGRAM key and observe the waveform in Figure 8 for a moment. Verify that the amplitude is at least 2.5 Vp-p and that the positive and negative amplitude are about equal. Since the waveform is only output for a moment when the PROGRAM key is pressed, press this key over and over until you have checked the waveform.



[Judging the pickup]

Do not judge the pickup until all the adjustments have been made correctly. In the following cases, there may be something wrong with the pickup.

- 1. The tracking error signal amplitude is extremely small (less than 2 Vp-p).
- 2. The focus error signal amplitude is extremely small (less than 2.5 Vp-p).
- 3. The positive and negative amplitudes of the focus error signal are extremely asymmetrical (2:1 ratio or more).
- 4. The RF signal is too small (less than 0.8 Vp-p) and even if VR1 (laser power) is adjusted, the RF signal can not be brought up to the standard level.

10. FOR PD-6700/KC, KUXJ, KCXJ, PD-5700/KC, KUXJ, KCXJ, PD-4700/KC, KUXJ AND KCXJ TYPES

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by " " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The ∆ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

10.1 FOR PD-6700/KC, KUXJ AND KCXJ TYPES

CONTRAST OF MISCELLANEOUS PARTS

The PD - 6700/KC, KUXJ and KCXJ types are the same as the PD - 6700/KU type with the exception of the following sections.

| Mark | Symbol & Description | | | | | |
|------|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------|
| | Symbol & Description | KU type | KC type | KUXJ type | KCXJ type | Remarks |
| | CD packing case Bonnet Operating instructions(English) Operating instructions (English/French) | PHG1700 PYY1147 PRB1138 | PHG1700 PYY1147 PRE1141 | PHG1627 PYY1129 PRB1138 | PHG1628 PYY1129 PRE1141 | For packing |

Note: As to the SCHEMATIC DIAGRAM and P. C. BOARDS CONNECTION DIAGRAM of the KC, KUXJ and KCXJ types, refer to those of the KU type.

10.2 FOR PD-5700/KC, KUXJ AND KCXJ TYPES

CONTRAST OF MISCELLANEOUS PARTS

The PD - 5700/KC, KUXJ and KCXJ types are the same as the PD - 5700/KU type with the exception of the following sections.

| Mark | Symbol & Description | | | | | |
|------|--|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------|
| | Symbol a Description | KU type | KC type | KUXJ type | KCXJ type | Remarks |
| | CD packing case Bonnet Operating instructions(English) Operating instructions (English/French) | PHG1699 PYY1147 PRB1138 | PHG1699 PYY1147 PRE1141 | PHG1622 PYY1129 PRB1138 | PHG1625 PYY1129 PRE1141 | For packing |

Note: As to the SCHEMATIC DIAGRAM and P. C. BOARDS CONNECTION DIAGRAM of theKC, KUXJ and KCXJ types, refer to those of the KU type.

10.3 FOR PD-4700/KC, KUXJ AND KCXJ TYPES

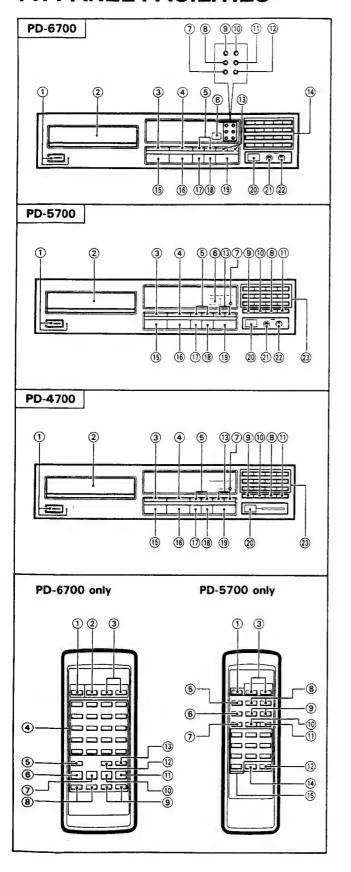
CONTRAST OF MISCELLANEOUS PARTS

The PD - 4700/KC, KUXJ and KCXJ types are the same as the PD - 4700/KU type with the exception of the following sections.

| Manda | Cumbal & Description | | | | | |
|-------|--|-------------------------------|--|-------------------------------|---------------------------------------|-------------|
| Mark | Symbol & Description | KU type | KC type | KUXJ type | KCXJ type | Remarks |
| | CD packing case Bonnet Operating instructions(English) Operating instructions (English/French) | PHG1698 PYY1147 PRB1138 | PHG1698 PYY1147 ••••• PRE1141 | PHG1617 PYY1129 PRB1138 | PHG1619 PYY1129 •••• PRE1141 | For packing |

Note: As to the SCHEMATIC DIAGRAM and P. C. BOARDS CONNECTION DIAGRAM of the KC, KUXJ and KCXJ types, refer to those of the KU type.

11. PANEL FACILITIES



FRONT PANEL

- 1 POWER STANDBY/ON switch and indicator
- 2 Disc tray
- (3) REPEAT button
- (4) HI-LITE SCAN button
- (5) MANUAL SEARCH (MANUAL) buttons (◀◀, ▶▶)
- (6) Remote sensor
- 7 TIME button
- (8) CHECK button
- Program edit button (EDIT)
 (■ COMPU/ ■■ AUTO)
- 10 Program button (PGM)
- (1) CLEAR button
- (12) > 20 button
- (13) TRACK SEARCH (TRACK) buttons (₩4, ▶+1)
- 14 TRACK NUMBER buttons (1-20)
- (5) OPEN/CLOSE button (♠)
- (6) RANDOM PLAY button
- (17) STOP button ()
- (18) PAUSE button (11)
- (19) PLAY button (▶)
- 20 PEAK SEARCH button
- (1) Headphones jack (PHONES)
- (2) Headphones volume control (PHONES LEVEL)
- 23 TRACK NUMBER buttons (1-10, +10, >20)

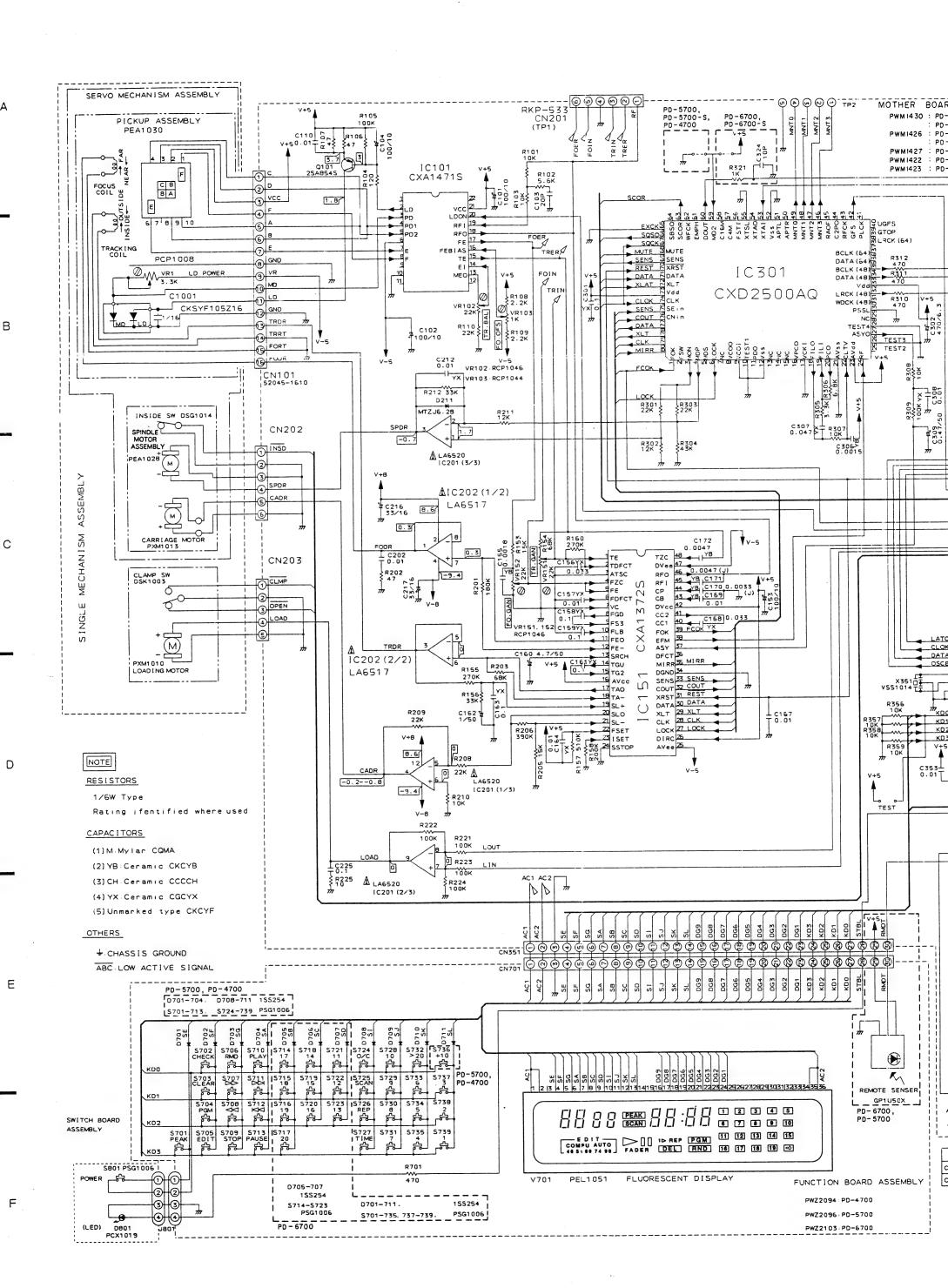
NOTE:

Items 1 and 2 are included on the U.K. and European models of the PD-4700.

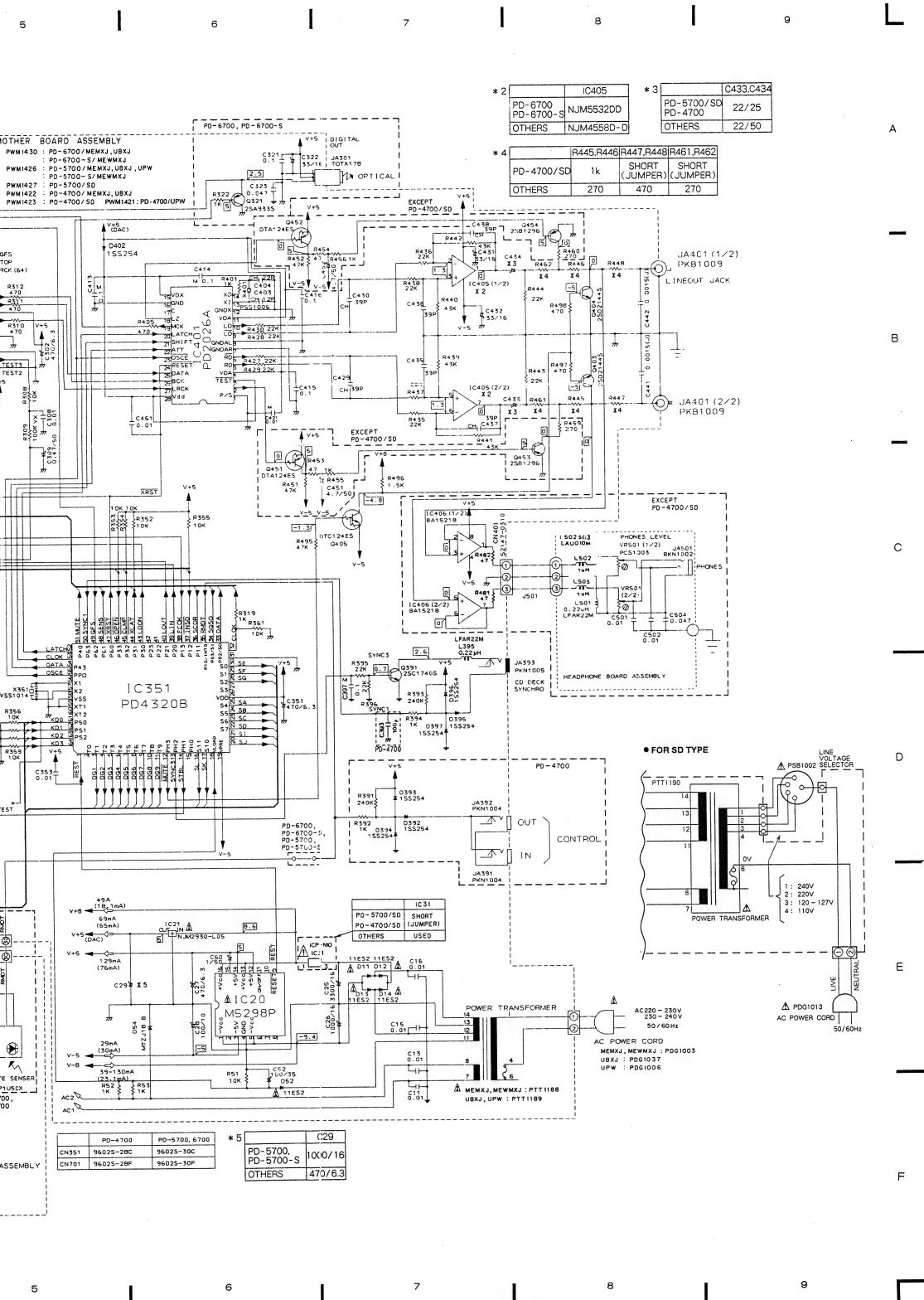
REMOTE CONTROL UNIT

Buttons listed here but not accompanied with explanations have the same functions as the corresponding front panel buttons.

- 1 POWER button
- ② OPEN/CLOSE button
- 3 OUTPUT LEVEL buttons (-, +)
- ④ Track number buttons (1-20)
- 5 Hi-lite scan button (HI-LITE SCAN)
- **6** RANDOM PLAY button
- STOP/clear button ()
- Manual search buttons (MANUAL ◄◄, ▶►)
- 10 PAUSE button (11)
- ① PLAY button (▶)
- (12) Program button (PROGRAM/PGM)
- 3 > 20 button
- (14) > 10 button
- 15 Track number buttons (1-10)



ъ 3



MOTHER BOARD ASSEMBLIES (PWM1426 and PWM1427)

The mother board assemblies (PWM1426 and PWM1427) are the same as the mother board assembly (PWM1425) with the exception of the following parts.

| | a i la Bassalation | | Part No. | | Remarks |
|------|--|--|--|--|---------|
| Mark | Symbol & Description | PWM1425 | PWM1426 | PWM1427 | Hemaiks |
| Δ | IC31 D391-D394 C29 C393 C415,C416 C433,C434 C441,C442 R391 R392 JA391, JA392 JACK (CONTROL IN, OUT) | 1SS254 CEAS471M6R3 CCCSL101J50 CQMA104K50 CEAS220M25 CQMA152J50 RD1/6PM244J RD1/6PM102J PKN1004 | ICP-N10 CEAS102M16 CFTXA104J50 CEAS220M50 CQSA152J50 | CEAS471M6R3 CQMA104K50 CEAS220M50 CQMA152J50 | |

2.3 FOR PD-4700/MEMXJ, UBXJ, SD AND UPW TYPES

The PD-4700/MEMXJ, UBXJ, SD and UPW types are the same as the PD-4700/KU type with the exception of the following sections.

| | | | | Part No. | | | |
|---------------------|--|------------------------|---------------------------|--------------------------|------------------------|-------------------------|-------------|
| Mark | Symbol & Description | PD-4700 /KU type | PD-4700 /MEMXJ type | PD-4700 /UBXJ type | PD-4700 /SD type | PD-4700 /UPW type | Remarks |
| • | Mother board assembly | PWM1421 | PWM1422 | PWM1422 | PWM1423 | PWM1421 | |
| _ | Headphone board assembly | | Non supply | Non supply | • • • • • | | |
| Δ | Power transformer (AC120V) | PTT1187 | | | | • • • • • | |
| $\overline{\Delta}$ | Power transformer (AC220V-230V, 230V-240V) | • • • • • | PTT1188 | PTT1189 | • • • • | PTT1189 | |
| ⚠ | Power transformer (AC110V, 120-127V, 220-230V, 230-240V) | • • • • | • • • • | • • • • | PTT1190 | • • • • • | |
| Δ | Line voltage selector (AC110V, 120-127V, 220-230V, 230-240V) | •••• | •••• | • • • • • | PSB1002 | •••• | |
| Δ | AC power cord | PDG1040 | PDG1003 | PDG1037 | PDG1013 | PDG1006 | |
| Δ | Strain relief | CM-22 | CM-22B | CM-22B | CM-22B | CM - 22B | |
| | Headphone knob | | PAC1370 | PAC1370 | | | |
| | Display window AK | PAM1462 | | | PAM1462 | PAM1462 | |
| | Display window AH | | PAM1492 | PAM1492 | •••• | • • • • • | |
| | Function panel assembly | PEA1139 | PEA1144 | PEA1144 | PEA1139 | PEA1139 | |
| | CD packing case | PHG1698 | PHG1619 | PHG1619 | PHG1618 | PHG1618 | For packing |
| | Stopper | | PNM1070 | PNM1070 | | | |
| | Insulator | • • • • • | VNK1095 | VNK1095 | | | |
| | Leg assembly | PXA1201 | • • • • • | | PXA1201 | PXA1201 | |
| | Bonnet | PYY1147 | PYY1129 | PYY1129 | PYY1147 | PYY1147 | |
| | Operating instructions (English) | PRB1138 | | PRB1138 | PRB1138 | PRB1138 | |
| | Operating instructions (Spanish) | | | • • • • • | PRC1029 | | |
| | Operating instructions (English/French) | • • • • • | PRE1141 | | | • • • • • | |
| | Operating instructions (German/Italian / Dutch/Swedish/Spanish/Portuguese) | | PRF1041 | | | • • • • • | |

MOTHER BOARD ASSEMBLIES (PWM1422 AND PWM1423)

The mother board assemblies (PWM1422 and PWM1423) are the same as the mother board assembly (PWM1421) with the exception of the following parts.

| Combal & Description | | Remarks | | |
|----------------------|---|--|--|---------|
| Symbol & Description | PWM1421 | PWM1422 | PWM1423 | Hemarks |
| IC31 | | ICP-N10 | | |
| IC406 | | BA15218 | | |
| O451.O452 | | DTA124ES | | |
| | • • • • | 2SB1296 | | |
| C451,C452 | •••• | CEAS4R7M50 | • • • • | |
| R445,R446 | RD1/6PM102J | RD1/6PM271J | RD1/6PM102J | |
| R447,R448,R459-R462 | | RD1/6PM471J | • • • • | |
| R451.R452 | | RD1/6PM473J | | |
| R453,R454,R481,R482 | | RD1/6PM470J | | ì |
| R455,R456 | • • • • | RD1/6PM102J | | |
| CN401 | | 52147-0310 | | |
| | IC406 Q451,Q452 Q453,Q454 C451,C452 R445,R446 R447,R448,R459-R462 R451,R452 R453,R454,R481,R482 R455,R456 | IC31 IC406 Q451,Q452 Q453,Q454 C451,C452 R445,R446 R447,R448,R459-R462 R451,R452 R453,R454,R481,R482 R455,R456 PWM1421 IC31 IC406 PWM1421 IC31 IC406 PWM1421 IC31 IC406 PM102J IC406 P | IC31 IC406 IC406 IC406 IC405 Q451,Q452 Q453,Q454 IC51,C452 IC7-N10 IC6406 IC6406 IC7-N10 IC7-N | C31 |

HEADPHONE BOARD ASSEMBLY

The headphone board assembly of the PD-4700/MEMXJ and UBXJ types are the same as the PD-6700 and PD-5700 series for the service supply parts.

2.4 SCHEMA

1. RESISTORS :

Indicated in Ω , 1/4W, 1 M;M Ω , (F); \pm 1%, (C

2. CAPACITORS : Indicated in capacity(

voltage is 50V except e

;DC voltage

4. OTHERS:

→ ;Signal route.
⊘ ;Adjusting point.
The ∆ mark found on factor of the part. To

in in the besis on

This is the basic somprovements in design

SWITCH BOARD ASSE

S801 : POWER OF

FUNCTION BOARD AS

(PD-6700, PD-6700
\$701 : PEAK SEARC

\$702 : CHECK

\$703 : CLEAR

\$704 : PGM

\$705 : EDIT

\$706 : RANDOM PL

\$707 : ▷▷ ☐

\$708 : ▷▷ ☐

\$710 : PLAY(▷)

\$711 : ▷▷ ☐

\$712 : █♥☐

\$712 : █♥☐

S715:18 S716:19 S717:20 S718:14 S719:15 S720:16 S721:11 S722:12

\$713 : PAUSE(00) \$714 : 17 7

S723: 13 S724: OPEN/CLOS S725: HI - LITE S6 S726: REPEAT S727: TIME

\$728:10 \$729:9 \$730:8 \$731:7 \$732: >20

\$733:6 \$734:5 \$735:4 \$737:3

S738:2 S739:1

(427)

the same as the mother board assembly (PWM1425) with the

| | Part No. | | Remarks |
|--|--------------------------|--------------------------|---------|
| 11425 | PWM1426 | PWM1427 | nemarks |
| 5254 71M6R3 2101J50 | ICP-N10 CEAS102M16 | CEAS471M6R3 | |
| 104K50 | CFTXA104J50 | CQMA104K50 | |
| 220M25 (152J50 PM244J PM102J I1004 | CEAS220M50 CQSA152J50 | CEAS220M50 CQMA152J50 | |

PW TYPES

e same as the PD-4700/KU type with the exception of the

| | Part No. | | | |
|------------------------------|-------------------------------|-------------------------------|-------------------------|-------------|
| D-4700 MEMXJ type | PD-4700 /UBXJ type | PD-4700 /SD type | PD-4700 /UPW type | Remarks |
| WM1422 | PWM1422 | PWM1423 | PWM1421 | |
| on supply | Non supply | | | |
| • • • • | | • • • • • | • • • • | |
| TT1188 | PTT1189 | • • • • | PTT1189 | |
| • • • • | • • • • | PTT1190 | • • • • • | , |
| • • • • | • • • • • | PSB1002 | | |
| DG1003 CM-22B | PDG1037 CM-22B | PDG1013 CM-22B | PDG1006 CM-22B | |
| AC1370 | PAC1370 | | | |
| • • • • | | PAM1462 | PAM1462 | |
| AM1492 | PAM1492 | • • • • • | • • • • • • | |
| PEA1144 PHG1619 NM1070 | PEA1144 PHG1619 PNM1070 | PEA1139 PHG1618 | PEA1139 PHG1618 | For packing |
| NK1095 | VNK1095 | | | |
| • • • • | • • • • | PXA1201 | PXA1201 | |
| PRE1141 PRF1041 | PYY1129 PRB1138 | PYY1147 PRB1138 PRC1029 | PYY1147 PRB1138 | |

MOTHER BOARD ASSEMBLIES (PWM1422 AND PWM1423)

The mother board assemblies (PWM1422 and PWM1423) are the same as the mother board assembly (PWM1421) with the exception of the following parts.

| Marile | Cymhol 9 Doggintion | | Damarka | | |
|--------|----------------------|-------------|-------------|-------------|---------|
| Mark | Symbol & Description | PWM1421 | PWM1422 | PWM1423 | Remarks |
| Δ | IC31 | | ICP-N10 | | |
| | IC406 | • • • • • | BA15218 | | 1 |
| | Q451,Q452 | | DTA124ES | | |
| | Q453,Q454 | | 2SB1296 | | |
| | C451,C452 | • • • • | CEAS4R7M50 | | |
| | R445.R446 | RD1/6PM102J | RD1/6PM271J | RD1/6PM102J | |
| | R447,R448,R459-R462 | | RD1/6PM471J | • • • • | |
| | R451,R452 | | RD1/6PM473J | | |
| | R453,R454,R481,R482 | | RD1/6PM470J | | |
| | R455,R456 | • • • • | RD1/6PM102J | • • • • • | |
| | CN401 | | 52147-0310 | | |

HEADPHONE BOARD ASSEMBLY

The headphone board assembly of the PD-4700/MEMXJ and UBXJ types are the same as the PD-6700 and PD-5700 series for the service supply parts.

2.4 SCHEMATIC DIAGRAM

. RESISTORS :

Indicated in Ω , 1/4W, 1/6W and 1/8W, \pm 5% tolerance unless otherwise noted k;k Ω , M;M Ω , (F); \pm 1%, (G); \pm 2%, (K); \pm 10%, (M); \pm 20% tolerance.

2. CAPACITORS

Indicated in capacity(μ F)/voltage(V)unless otherwise noted p;pF. Indication without voltage is 50V except electrolytic capacitor.

3. VOLTAGE, CURRENT:

:DC voltage(V)at play state.

⇔ mA :DC current at play state.

Value in()Is DC current at stop state.

4. OTHERS :

- ⇒ ;Signal route.
- () ;Adjusting point.

\$738 : 2 \$739 : 1

The Δ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

* marked capacitors and resistors have parts numbers.

This is the basic schematic diagram, but the actual circuit may vary due to improvements in design.

5. SWITCHES: (The underlined indicates the switch position)

```
SWITCH BOARD ASSEMBLY
S801: POWER ON — OFF
```

```
S801 : POWER ON - OFF
FUNCTION BOARD ASSEMBLY
                              FUNCTION BOARD ASSEMBLY
(PD-6700, PD-6700-S TYPES)
                              (PD-5700, PD-5700-S AND PD4700 TYPES)
 S701: PEAK SEARCH
                                         S701 : PEAK SEARCH
 S702 : CHECK
                                         $702 : CHECK
 S703 : CLEAR
                                         S703 : CLEAR
 $704 : PGM
                                        $704 : PGM
 $705 : EDIT
                                         $705 : EDIT
  S706 : RANDOM PLAY
                                         S706: RANDOM PLAY
 S707: DD ☐ MANUAL SEARCH
                                        S707 : ▷▷ MANUAL SEARCH
  S708: ⊲⊲ _
  $709 : STOP(□)
                                         S709 : STOP(□)
 $710 : PLAY(▷)
                                         S710 : PLAY(▷)
 S711: ▷□ TRACK SEARCH
                                         S711: DOG TRACK SEARCH
  S712: [KK]_
  S713: PAUSE(88)
                                         S713 : PAUSE(00)
  S714:17
                                         S724 : OPEN/CLOSE( )
  S715:18
                                         S725 : HI-LITE SCAN
  S716:19
                                         S726: REPEAT
 $717:20
                                         S727 : TIME
  S718:14
                                         S728:10
           TRACK NUMBER
  S719:15
                                         S729:9
  S720:16
                                         S730:8
  S721:11
                                         S731:7
  S722:12
                                         S732: >20
  S723 : 13 _
                                         S733:6
                                                   TRACK NUMBER
  S724: OPEN/CLOSE( A )
                                         S734:5
  S725 : HI - LITE SCAN
                                         S735:4
  S726: REPEAT
                                         S736:+10
  S727 : TIME
                                         S737:3
  S728:10
                                         S738:2
                                         S739:1
  S729:9
  S730:8
  S731:7
  S732: >20
  $733:6
             TRACK NUMBER
  S734:5
  S735:4
  S737:3
```

PD-5700/MEWMXJ,PD-4700/MEMXJ,UBXJ,SD,UPW

1. SAFETY INFORMATION

(FOR EUROPEAN MODEL ONLY)

JA SUOJALUKITUS AVATTAESSA OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

-ADVERSEL: -

USYNLIG LASERSTRÅLING VED ÄBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION UNDGA UDSAETTELSE FOR STRÅLING.

- VARNING!

OSYNLIG LASERSTRÄLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.



Kuva 1 Lasersateilyn varoitusmerkki

DEVICE INCLUDES LASER DIODE WHICH EMITS INVISIBLE INFRARED RADIATION WHICH IS DANGEROUS TO EYES. THERE IS A WARNING SIGN ACCORDING TO PICTURE 1 INSIDE THE DEVICE CLOSE TO THE LASER



Warning sign for laser radiation

-IMPORTANT -

THIS PIONEER APPARATUS CONTAINS LASER OF HIGHER CLASS THAN 1. SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUCTED PERSON.

LASER DIODE CHARACTERISTICS -MAXIMUM OUTPUT POWER: 5 mw WAVELENGTH: 780-785 nm

LABEL CHECK (SINGLE type)

UBXJ type

MEMXJ and MEWMXJ types

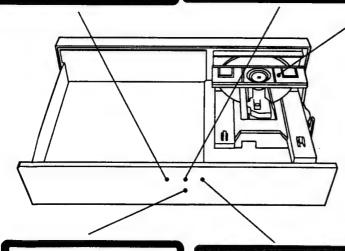
CAUTION INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO BEAM

PRW1018

YNLIG LASERSTIKÁLING VED ÁÐ VORSICHT!

MEMXJ, MEWMXJ and UBXJ types





Avattsessa ja suojalukitus ohitetta-essa olet aittiina näkymättömälle lamersäteilylle. Älä katso säteeseen. VARNING! Osynlig laserstrålning när denna del år öppnad och spärren är urkopplad. år oppned och spärre Betrakta ej strålen.

> **MEMXJ** and **MEWMXJ** types

CLASS 1 LASER PRODUCT

MEMXJ. MEWMXJ and UBXJ types

- Additional Laser Caution -

1. Laser Interlock Mechanism

The position of the switch (S601) for detecting loading completion is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch (S601) is not in CLMP terminal side (when the mechanism is not clamped and CLMP signal is high level).

Thus, the interlock will no longer function if the switch (S601) is deliberately set to CLMF terminal side (if CLMP signal is low level).

In the test mode,* the interlock mechanism will not

Laser diode oscillation will continue if pins 2 and 3 of CXA1471S (IC101) are connected to ground or pin 20 is connected to high level (ON) or the teraminals of Q101 are shorted to each other (fault andition).

- 2. When the cover is opened, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 or higher laser beam.
- *: Refer to page 32 of the service manual (PD-6700, PD-5700, PD-4700), ARP2193.



ORDER NO. ARP2213

PD-6700-SMEMXJ,UBXJ
PD-5700-SMEWMXJ
PD-5700-SMEWMXJ
PD-5700-SMEWMXJ
PD-4700
MEMXJ,UBXJ,SD,UPW

- Refer to the service manual ARP2193, PD-6700, PD-5700, and PD-4700.
- This manual is applicable to the PD-6700/MEMXJ, UBXJ, PD-6700-S/MEWMXJ, PD-5700/MEMXJ, UBXJ, SD, UPW, PD-5700-S/MEWMXJ, PD-4700/MEMXJ, UBXJ, SD and UPW types.

2.2 FOR PD-5700/MEMXJ, UBXJ, SD, UPW AND PD-5700-S/MEWMXJ TYPES

The PD-5700/MEMXJ, UBXJ, SD, UPW and PD-5700-S/MEWMXJ types are the same as the PD-5700/KU type with the exception of the following sections.

| | | Part No. | | | | | | |
|------|--|---------------------|------------------------|-----------------------|---------------------|----------------------|----------------------|--------------|
| Mark | Symbol & Description | PD-5700 /KU type | PD-5700 /MEMXJ type | PD-5700 /UBXJ type | PD-5700 /SD type | PD-5700 /UPW type | PD-5700-S /MEWMXJ | Remarks |
| • | Mother board assembly | PWM1425 | PWM1426 | PWM1426 | PWM1427 | PWM1426 | PWM1426 | |
| Δ | Power transformer (AC120V) | PTT1187 | •••• | • • • • • | | ***** | F W W 11420 | |
| Δ | Power transformer (AC220V-230V, 230V-240V) | •••• | PTT1188 | PTT1189 | ••••• | PTT1189 | PTT1188 | |
| Δ | Power transformer (AC110V, 120-127V, 220V-230V, 230V-240V) | •••• | ••••• | •••• | PTT1190 | •••• | •••• | |
| Δ | Line voltage selector (AC110V, 120-127V, 220V-230V,230V-240V) | •••• | •••• | •••• | PSB1002 | •••• | •••• | |
| | Strain relief | CM-22 | CM-22B | CM-22B | CM-22B | CM-22B | G) (aan | |
| Δ | AC power cord | PDG1040 | PDG1003 | PDG1037 | PDG1013 | PDG1006 | CM-22B | |
| | Connection cord with mini plug | PDE-319 | • • • • • | • • • • • | | 1201006 | PDG1003 | |
| | CD packing case | PHG1699 | PHG1625 | PHG1625 | PHG1623 | PHG1623 | PHG1626 | For packing |
| - 1 | Bonnet | PYY1147 | PYY1129 | PYY1129 | PYY1147 | PYY1147 | | |
| | Display window BK | PAM1463 | | • • • • • | PAM1463 | PAM1463 | PYY1130 | |
| | Display window BH | • • • • • | PAM1498 | PAM1498 | 1 71111403 | FAM1403 | D | |
| - 1 | Stopper | PNM1070 | PNM1070 | PNM1070 | | | PAM1498 | |
| | Insulator | VNK1095 | VNK1095 | VNK1095 | • • • • • | | PNM1070 VNK1095 | |
| | Leg assembly | • • • • • | | | PXA1201 | PXA1201 | | |
| | Headphone knob | PAC1370 | PAC1370 | PAC1370 | PAC1370 | PAC1370 | PAC1402 | |
| - 1 | Power button | PAC1540 | PAC1540 | PAC1540 | PAC1540 | PAC1540 | PAC1402 | |
| | Power button S | • • • • • | | • • • • • | | 1 AC1340 | 1 | |
| | Play button B | PAC1542 | PAC1542 | PAC1542 | PAC1542 | PAC1542 | PAC1580 | |
| | Play button BS | | | | | | 2.5.5. | |
| | Program button B | PAC1544 | PAC1544 | PAC1544 | PAC1544 | PAC1544 | PAC1582 | |
| | rogram button BS | • • • • • | • • • • • | • • • • • | | FAC1344 | | |
| | leadphone name plate S | • • • • • | • • • • • | • • • • • | | | PAC1584 | |
| | function panel assembly | PEA1140 | PEA1140 | PEA1140 | PEA1140 | PEA1140 | PAM1500 PEA1145 | |
| | ray name plate | PNW1900 | PNW1900 | PNW1900 | PNW1900 | PNW1900 | | |
| | ray name plate S | • • • • • | • • • • • | • • • • • | • • • • • | | PNW1984 | |
| 10 | Operating instructions English) | PRB1138 | • • • • • | PRB1138 | PRB1138 | PRB1138 | | |
| | perating instructions Spanish) | •••• | •••• | •••• | PRC1029 | •••• | •••• | |
| | perating instructions English/French) | •••• | PRE1141 | •••• | | | | |
| Ċ | perating instructions (German/Italian / Dutch/Swedish /Spanish/Portuguese) | •••• | PRF1041 | •••• | •••• | •••• | PRF1041 | |

2. CONTRAST OF MISCELLANEOUS PARTS

NOTES:

- Parts without part number cannot be supplied.
- Parts marked by " " are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.
- The \triangle mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

The PD-6700/MEMXJ, UBXJ and PD-6700-S/MEWMXJ types are the same as the PD-6700/KU type with the exception of the following sections.

| | | | Part | No. | | |
|----------|--|---------------------|------------------------|-----------------------|----------------------|-------------|
| Mark | Symbol & Description | PD-6700 /KU type | PD-6700 /MEMXJ type | PD-6700 /UBXJ type | PD-6700-S /MEWMXJ | Remarks |
| • | Mother board assembly | PWM1429 | PWM1430 | PWM1430 | PWM1430 | |
| Δ | Power transformer (AC120V) | PTT1187 | | | • • • • • | |
| Δ | Power transformer (AC220V-230V, 230V-240V) | • • • • • | PTT1188 | PTT1189 | PTT1188 | |
| Δ | AC power cord | PDG1015 | PDG1003 | PDG1037 | PDG1003 | |
| Φ | Strain relief | CM-22C | CM-22B | CM-22B | CM-22B | |
| | CD packing case | PHG1700 | PHG1628 | PHG1628 | PHG1630 | For packing |
| | Connection cord with mini plug | PDE-319 | • • • • • | • • • • • | | |
| | Bonnet | PYY1147 | PYY1129 | PYY1129 | PYY1130 | |
| | Display window CK | PAM1470 | | • • • • | | |
| | Display window CH | • • • • | PAM1499 | PAM1499 | PAM1499 | |
| | Headphone knob | PAC1370 | PAC1370 | PAC1370 | PAC1402 | |
| | Power button | PAC1540 | PAC1540 | PAC1540 | | |
| | Power button S | • • • • • | •••• | • • • • • | PAC1580 | |
| | Play button B | PAC1542 | PAC1542 | PAC1542 | | |
| | Play button BS | • • • • | | | PAC1582 | |
| | Select button | PAC1545 | PAC1545 | PAC1545 | | |
| | Select button S | • • • • • | | • • • • | PAC1587 | |
| | Function panel assembly | PEA1141 | PEA1141 | PEA1141 | PEA1148 | |
| | Tray name plate | PNW1900 | PNW1900 | PNW1900 | | |
| | Tray name plate S | • • • • | | | PNW1984 | |
| | Headphone name plate S | • • • • • | | • • • • | PAM1500 | |
| | Operating instructions (English) | PRB1138 | | PRB1138 | | |
| | Operating instructions (English/French) | • • • • • | PRE1141 | • • • • • | • • • • • | |
| | Operating instructions (German/Italian / Dutch/Swedish/Spanish/Portuguese) | •••• | PRF1041 | • • • • • | PRF1041 | |

MOTHER BOARD ASSEMBLY (PWM1430)

The mother board assembly (PWM1430) is the same as the mother board assembly (PWM1429) with the exception of the following parts.

| Mark | Symbol & Description | Part No. | | |
|------|--|--|----------------------|---------|
| | | PWM1429 | PWM1430 | Remarks |
| Δ | IC31 IC405 D391-D394 C393 R391 | NJM4558D-D 1SS254 CCCSL101J50 RD1/6PM244J | ICP-N10 NJM5532DD | |
| | R392 JA391, JA392 JACK(CONTROL IN, OUT) | RD1/6PM102J PKN1004 | • • • • • | |

12. SPECIFICATIONS

| 1. General |
|---|
| Type Compact disc digital audio system |
| Usable discs Compact Disc |
| Power requirements |
| U.K. and Australian models AC 230-240V, 50/60Hz |
| European model AC 220-230V, 50/60Hz |
| U.S. and Canadian models AC 120V, 60Hz |
| Multi-voltage model AC 110/120-127/220/240V |
| (switchable) 50/60Hz |
| Power consumption 12W |
| Operating temperature $+5^{\circ}C-+35^{\circ}C$ |
| (+41°F-+95°F) |
| Weight 3.6kg (7lb, 15oz) |
| External dimensions |
| PD-4700: U.K. and European models, |
| PD-5700: U.S., Canadian, U.K. and European models, |
| PD-6700: All models 420(W) × 276(D) × 101(H)mm |
| $16-9/16(W) \times 10-7/8(D) \times 4(H)$ in. |
| Other models |
| $16-9/16(W) \times 10-7/8(D) \times 3-13/16(H)$ in. |
| 2. Audio section |
| Frequency response |
| Dynamic range 96dB or more (EIAJ) |
| Total harmonic distortion 0.003% or less (EIAJ) |
| Output voltage 2.0V |
| Wow and flutter Limit of measurement |
| (±0.001% W.PEAK) or less (EIAJ) |
| Number of channels |
| 3. Output terminal |
| Audio line output terminals |
| CD-DECK SYNCHRO terminal |
| Control input/output terminals |
| |

(PD-4700: All models,

PD-5700: U.S. and Canadian models only, PD-6700: U.S. and Canadian models only)

 Headphone jack (with volume control) (PD-4700: U.K. and European models only, PD-5700: All models,

PD-6700: All models)

Optical digital output terminal (PD-6700: All models)

4. Functions

- Play
- Pause
- Stop
- Manual search
- Track search
- Peak search
- Hi-lite scan
- Direct selection
- Single track repeat
- All track repeat
- Programmed repeat
- Random play repeat
- Programmed random play repeat
- Programmed playback (up to 24 tracks)
- Pause program
- Program check
- Program correction
- Program clear

- Auto program edit
- Compu program edit
- Digital level control (PD-6700/PD-5700: Remote control only)
- Random play
- Programmed random play
- Program hold
- Level hold
- Timer start
- CD-deck synchro

5. Accessories

| Remote control unit (PD-6700, PD-5700) | 1 |
|--|---|
| • Size AAA/R03 dry cell batteries (PD-6700, PD-5700) | 2 |
| Output cable | 1 |
| Control cord | |
| (PD-6700: U.S. and Canadian models) | |
| (PD-5700: U.S. and Canadian models) | |
| (PD-4700: All models) | 1 |
| Operating instructions | 1 |
| | |

The specifications and design of this product are subject to change without notice, due to improvements.